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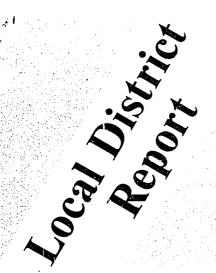
Socioeconomic Background

IDENTIFIERS *Michigan Assessment Program

ABSTRACT

The Michigan Assessment Program was initiated by the State Board of Education in an effort to provide educators with information which would facilitate the decision-making process in relation to educational change and improvement. The program was designed to gather data on the levels and geographic distribution of performance factors and to provide local school district officials with information regarding schools within their districts. Implementation of this assessment procedure would enable local school district officials to construct educational profiles, providing a basis for comparison with other state districts while emphasizing levels of educational performance and performance factors. An explanatory booklet describes precautions which must be taken in utilizing and interpreting the Assessment data, explains the format of the data presented in the local districts computer printout, defines the Assessment measures, and describes the norm tables and education profiles. A hypothetical district is employed in the presentation, but the techniques can be adapted to assess an actual district. Eighteen factors, which may be grouped broadly under Socioeconcmic Background (1 factor), Attitudes and Aspirations (3), Human Resources (4), Financial Resources (6), and Basic Skills (4), were measured. (Author/PR)





SCHOOL DISTRICT:

Dyer

Enclosed are materials with which you can construct education profiles for your district. These profiles will permit you to compare your district and schools with other districts and schools in Michigan on those variables reported in the Michigan Assessment Program.

MICHIGAN ASSESSMENT PROGRAM 1969-70

ASSESSMENT REPORT NO. 6

THERE ARE THREE SETS OF MATERIALS:

I. EXPLANATORY BOOKLET

In the *left-hand side of the enclosed folder* is a booklet that explains: (a) the precautions to be heeded in the use of Assessment data; (b) how to interpret the local district computer printout; and (c) how to construct education profiles. It is important to read this booklet carefully before attempting to utilize the other materials.

2. NORM TABLES

In the *right-hand side of the enclosed folder* are norm tables. There are separate tables for *district* and *school* data. There are tables for *Michigan* as a whole, for your *region*, for your *community type*, and—in some cases—for your *combination* community type and region.

3. LOCAL COMPUTER PRINTOUTS

In the *mailing envelope with this folder* is a local computer printout. This printout contains data on your district and its schools. The explanatory booklet will show you how to portray this data graphically and effectively in education profiles.

IMPORTANT:

The enclosed materials are, of necessity, complicated. It is of utmost importance, therefore, that you read—and thoroughly understand—the explanatory booklet before attempting to employ the data from your computer printout.

If there are questions still unanswered after study of these materials they may be directed to the Bureau of Research, Evaluation and Assessment, Michigan Department of Education, Lansing, 48902 (Tel.: 517-373-1830).

MICHIGAN DEPARTMENT OF EDUCATION

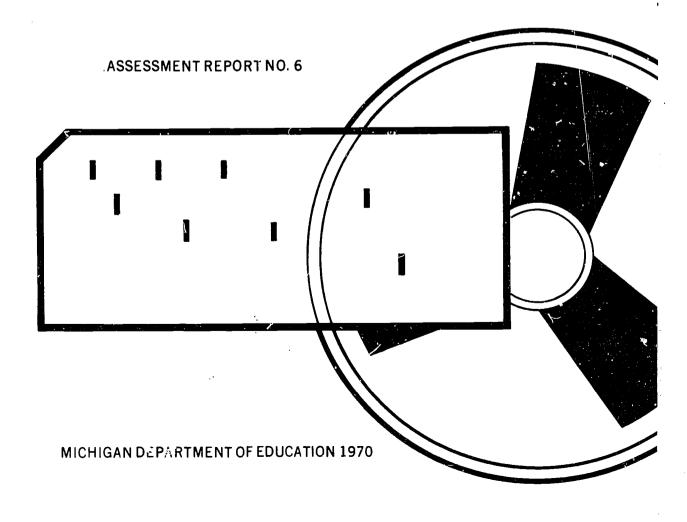


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LOCAL DISTRICT REPORT: **EXPLANATORY MATERIALS**





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FOREWORD

The Michigan Assessment Program was initiated by the State Board of Education, supported by the Governor, and funded by the Legislature through enactment of Public Law 307 in August, 1969. The goal of the Program is to provide educators and citizens with information regarding the status and progress of Michigan's educational system so that they may make more informed decisions about education in the State.

Three major purposes guided the design and operation of the 1969-70 Michigan Assessment Program. The three purposes were:

- 1. to gather data which would show the levels of educational performance and the <u>levels</u> of <u>certain factors related</u> to <u>performance within Michigan's geographic regions and community types;</u>
- 2. to gather data which would indicate the ways in which educational performance and certain factors related to performance are distributed in Michigan; and
- 3. to provide local school district officials and citizens with information regarding their own school district and its schools.

Data gathered regarding the third purpose is presented in these materials: Local District Report, Lansing, Michigan: Michigan Department of Education, Assessment Report No. 6, 1970.

Thanks are due to a large number of individuals and groups for making the Michigan Assessment Program a reality: the State Board of Education for proposing it, the Governor and Legislature for actively supporting it, and Michigan educators for assisting with it. The Program was designed and administered by the Bureau of Research, Evaluation, and Assessment, Michigan Department of Education, with the counsel of several ad hoc advisory groups.

John W. Porter
Acting Superintendent of
Public Instruction



INTRODUCTION

By following the procedures described in this booklet, local school officials will be able to construct education profiles which will enable them to relate their district and schools with other districts and schools in Michigan, in their geographic region, in their community type, and in their combination region-community type. The relating may be made on the levels of educational performance and the levels of certain factors related to performance. The education profiles will enable local school officials and citizens to better understand their district and its schools.

This explanatory booklet has three sections. The <u>first</u> section describes precautions which must be taken in utilizing and interpreting the Assessment data. The <u>second</u> section explains the format of the data presented in the local district's computer printout. This is done by referring the reader to a fictitious computer printout for the hypothetical "Michville" school district. This fictitious printout is presented as FIGURE 1. The <u>third</u> section defines the Assessment measures. The <u>fourth</u> section describes the norm tables that are provided with this booklet. It also explains how the data presented in the local district's computer printout may be plotted onto the norm tables to create district-level and school-level education

¹The geographic regions and community types employed in the Michigan Assessment Program are described in Appendix A of this booklet.



profiles for the hypothetical Michville district and its schools.

An actual State-wide, fourth grade, district-level norm table is shown with Michville's district scores plotted on it (FIGURE 2). An actual State-wide, fourth grade, school-level norm table is shown with Michville's schools' scores plotted on it also (FIGURE 3). Careful reading of these four sections will prepare local school officials to construct and interpret education profiles for their own districts and schools.



I. PRECAUTIONS IN THE UTILIZATION OF ASSESSMENT DATA

Proper utilization of the data presented in the local district printout will help to pinpoint educational needs and therefore can lead to improved decision-making at the local level regarding the allocation of resources and the design of curricula. This first section of the booklet outlines several precautions which must be exercised in the construction and interpretation of the education profiles.

A. Relationships among Assessment Variables

The Michigan Assessment Program is built on the assumption that there is a relationship between student performance and certain other factors. Recent research indicates that certain characteristics of students' background--including their socioeconomic status and their attitudes and aspirations--bear a strong relationship to performance. Research also indicates a moderate relationship between qualities of the instructional staff and performance. Finally, the amount of financial resources spent by a district bears an indirect relationship to performance because schools with more financial resources are able, among other things, to acquire and retain higher paid certificated staff and provide a greater variety of instructional programs.²

It must be understood, however, that previous research has been conducted on $\underline{\text{large samples}}$ of schools and school districts.

 $^{^2}$ For a report and discussion of research which deals with the influence of non-school factors, e.g., socioeconomic status and attitudes and aspirations, refer to Research into the Correlates of School Performance: A Review and Summary of Literature. (Lansing, Michigan: Michigan Department of Education, Assessment Report No. 3, 1970).



Additionally, it must be understood that previous research has not established causal relationships. Therefore it must not be assumed that there will be a relationship between achievement and the other variables in all individual district reports.

B. Assessment Data Represents a Sample

Much of the data gathered for the Michigan Assessment Program must be considered a <u>sample</u>. Thus, for example, a school's score on composite achievement is assumed to reflect the knowledge of fourth graders on a sample of Basic Skills items as measured at a particular time. If a different sample of items had been administered to the same group of children undersimilar conditions, at a different time, it is probable that they would have obtained similar scores. A further consideration is the number of pupils who took the battery within each school and district. In schools where a large number of children responded to the Assessment Battery, the score for the school is expected to be fairly stable. However, where there are fewer than five children in the school responding to the Assessment Battery, the score for that school may not be reliable. Therefore, caution must be exercised when interpreting scores based on fewer than five children.

C. Validity and Reliability of Socioeconomic Data

The Michigan Assessment Program measured the socioeconomic status of groups of youngsters because it has been shown to be related to achievement in past research. However, it should be recognized that socioeconomic status is extremely difficult to index and measure accurately. It is likely that in some schools—expecially those in which very few youngsters responded to the SES items of the Assessment



Battery--the socioeconomic score may not accurately reflect the socioeconomic background of a given school as measured by the students' responses.

D. District and School-Level Data

In constructing the education profiles, the local school official should be careful to use his school means only with the school tables and his district means only with district tables.



II. THE COMPUTER PRINTOUT

The 1969-70 Assessment Program measured eighteen factors grouped into six categories. These categories were: (1) socioeconomic background, (2) attitudes and aspirations, (3) 1968-69 district human resources, (4) 1968-69 district financial resources, (5) vocabulary, and (6) basic skills achievement. This ordering was used in constructing the district and school-level norm tables. The computer printout attached to these materials contains the local scores on these factors. The measures of human and financial resources were gathered from district records. The other factors were measured by the Assessment Battery at the fourth and seventh grade levels. This section of the explanatory booklet describes this computer printout.

The Computer Printout

As mentioned, the local district printout is included with the norm tables as part of these materials. A <u>sample printout</u> for the hypothetical "Michville" school district is included in this booklet as FIGURE 1.

In the Michville computer printout, at the top of the first page under the district number and name and under the heading "1968-69 DISTRICT HUMAN RESOURCES," measures are given which describe certain characteristics of the instructional staff of the district in terms of pupil load, education, experience, and compensation. At the right of the EISTRICT HUMAN RESOURCES, under the heading "1968-69 DISTRICT FINANCIAL RESOURCES," are per pupil measures of district wealth, revenue, and expenditure.



MICHIGAN ASSESSMENT OF BASIC SKILLS LOCAL DISTRICT REPORT

86-010 MICHVILLE SCHOOL DISTRICT REGION 2 COMMUNITY TYPE III

	15590	. 346	273	373	PERPUPIL 575		COMPOSITE ACHIEVEMENT			50.8	9.4	41		. 47.3	9.2	46	
CES:	PER PUPIL			PER PUPIL	ENDITURE		VEMENT Math			51.3	8.7	41		50.2	8.1	46	
1968-69 DISTRICT FINANCIAL RESOURCES:	ALUATION P	PER PUPIL	PER PUPIL	K-12 INSTRUCTIONAL EXPENSE PER PUPIL	TOTAL CURRENT OPERATING EXPENDITURE PERPUPIL		BASIC SKILLS ACHIEVEMENT READING ENG.EXPR. MAT			49.9	16.1	41		48.9	8.7	46	
RICT FINANC	EQUALIZED VALUATION	REVENUE PER	STATE SCHOOL AID PER PUPIL	NSTRUCTION#	CURRENT OPE	970	BASIC SE READING			50.3	6.6	42		46.8	6.3	47	
38-69 DIST	STATE	LOCAL 1	STATE	K-12 II	TOTAL (ASSESSMENT BATTERY RESULTS JANUARY 1970	VOCAB.			51.5	8.2	42		47.3	8.6	47	
19(RY RESULTS	& ASPIRATIONS B C			54.3	7.1	38		48.4	8.8	48	
	19.7	4	m	2		BATTE				51.4	9.8	38		46.5	9.4	48	
	r-		DEGREES 23	7082		SESSMENT	ATTITUDES A			49.3	8.7	38		45.6	9.3	48	
CES:		XPERIENCE	MASTERS			AS	SES		\	52.4	10.6	38		48.5	8.4	48	
1968-69 DISTRICT HUMAN RESOURCES:	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERIENCE	PERCENT OF TEACHERS WITH MASTERS DEGREES	AVERAGE TEACHER SALARY				4TH GRADE BUILDING SCORES	3487 ABLE ELEM. SCHOOL	SCHOOL MEAN	STANDARD DEVIATION	NUMBER OF PUPILS	E379 BUSH ELEM. SCHOOL	SCHOOL MEAN	STANDARD DEVIATION	NUMBER OF PUPILS	

DISTRICT MEAN BASED UPON ALL 4TH GRADE STUDENTS TESTED IN DISTRICT

9.4

98

48.9

50.7 8.5 87

49.4 9.4 87

48.5 8.5 89

49.3

51.0 8.5 86

48.7

47.2 9.1 86

50.2 9.9 86

4TH GRADE DISTRICT SUMMARY

DISTRICT MEAN

STANDARD DEVIATION NUMBER OF PUPILS

87



MICHIGAN ASSESSMENT OF BASIC SKILLS LOCAL DISTRICT REPORT

86-010 MICHVILLE SCHOOL DISTRICT REGION 2 COMMUNITY TYPE III

	15590	346	273	373	PER PUPIL 575	COMPOSITE	HIEVEMENI		7 7 7	/:/+	8.8 85		47.7	8.8	. 82
CFS·	R PUPIL			PER PUPIL	EXPENDITURE PE	=			48	, r	85		48.6	7.5	85
CIAL RESOUR	ALUATION PER	PUPIL	PER PUPIL		ATING EXPE	SKILLS ACHIEVEMENT	. באראי		47.4	- π	85		47.4	8.3	85
1968-69 DISTRICT FINANCIAL RESOURCES:	EQUALIZED VALUATION	REVENUE PER	SCHOOL AID F	K-12 INSTRUCTIONAL EXPENSE	TOTAL CURRENT OPERATING UARY 1970	BASIC SKI RFADING F			48.6		85		48.6	8.5	85
168-69 DIST	STATE E	LOCAL R	STATE S	K-12 IN	TOTAL CUR RESULTS JANUARY 1970	VOCAB			50.1	9.7	82		50.1	9.7	85
15					NY RESULTS	ASPIRATIONS C			51.8	8.5	81		51.8	8.5	81
	19.7	4	23	7802	BATTER	ഷ മ			48.3	10.4	81		48.3	10.4	81
			DEGREES	78	ASSESSMENT BATTERY	ATTITUDES A			47.1	9.6	81		47.1	9.6	81
RCES:		EXPERIENCE	TH MASTERS		AS	SES			50.1	9.1	81		50.1	9.1	18
1968-69 DISTRICT HUMAN RESOURCES:	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERI	PER CENT OF TEACHERS WITH MASTERS DEGREES	AVERAGE TEACHER SALARY	N		7TH GRADE BUILDING SCORES	4628 JONES MIDDLE SCHOOL	SCHOOL MEAN	STANDARD DEVIATION	NUMBER OF PUPILS	7TH GRADE DISTRICT SUMMARY	DISTRICT MEAN	STANDARD DEVIATION	NUMBER OF PUPILS

FIGURE I (CONTINUED)

Below these measures of district human and financial resources will be found the results of the January, 1970 Assessment Battery. The results are shown by building for schools testing 4th graders, and then for all 4th graders in the district (4th GRADE DISTRICT SUMMARY); a similar report has been prepared for the 7th grade, where results are shown by building for schools testing 7th graders and, finally, for all 7th graders in the district (7th GRADE DISTRICT SUMMARY).

The mean pupil score within a school on each measure is shown in the row labelled "SCHOOL MEAN," and the spread or dispersion of pupil scores is shown in the row labelled "STANDARD DEVIATION"--about two-thirds of the pupils' scores would be found within one standard deviation above and below the school mean. Finally, the number of pupils who responded to each measure is shown in the row labelled "NUMBER OF PUPILS." The district summaries, which appear after the last set of building scores at each grade level, follow the same pattern as the school scores, except that the mean, standard deviation, and number of pupils are district-wide figures referring to all pupils tested at the grade level indicated.

 $^{^3}$ Brief definitions of statistical terms used in these materials are provided in Appendix B.



III. DEFINITION OF THE ASSESSMENT MEASURES

For the reader's convenience, the 18 factors measured in the Michigan Assessment Program are listed below with brief comments where appropriate.

SOCIOECONOMIC BACKGROUND:

1. Socioeconomic Status. The Assessment Battery which was given to students included several questions which were designed to gather information regarding students' socioeconomic background. These responses were not analyzed on an individual student basis; rather, scores were compiled for each school and district which participated in the Assessment Program. The SES measure is assumed to be indicative of students' perceptions of such things as the educational level of parents and their general economic level.

ATTITUDES AND ASPIRATIONS:

- 2. Attitude A: Importance of School Achievement. The Assessment Battery also included twelve questions which were designed to gather information regarding students' attitudes and aspirations. Several of these quations dealt with students' perceptions of the importance of doing well in school. These responses were not analyzed on an individual student basis; rather, scores were compiled for each school and district which participated in the Assessment Program.
- 3. Attitude B: Self Perception. Several of the 12 attitude and aspiration questions dealt with students' perceptions



- about their own worth. Again, these responses were not analyzed on an individual basis.
- 4. Attitude C: Attitude Toward School. Several of the 12 attitude and aspiration questions dealt with students' attitudes towards their school. These responses were not analyzed on an individual basis.

1968-69 DISTRICT HUMAN RESOURCE FACTORS:

- 5. Pupil/Teacher Ratio. The pupil/teacher ratio for each district was computed from records held in the Department of Education. It was computed by dividing the number of students in the district (as of the fourth Friday of the school year) by the number of teachers (as listed on the Department's Register of Professional Personnel).
- 6. Average Years Teaching Experience. The average number of years of experience for teachers in each district was computed from records held in the Michigan Department of Education.
- 7. Percentage of Teachers with Masters or Above. The per cent of teachers in each district who had completed at least a masters degree was computed from records held in the Michigan Department of Education.
- 8. Average Teacher Salary. The average teacher's salary for each district was computed from records held in the Michigan Department of Education.

1968-69 DISTRICT FINANCIAL RESOURCE FACTORS:

9. <u>State Equalized Valuation Per Pupil</u>. This measure was obtained from school district financial records held in the



- Department of Education. It was calculated by dividing the district's SEV by its number of pupils (as of the fourth Friday of the school year).
- 10. Local Revenue Per Pupil. This measure was obtained from

 Department of Education records. It was computed by divid
 ing the amount of money raised locally for public education

 (less money for community colleges) by the number of pupils

 in the district (as of the fourth Friday of the school year).
- 11. State Aid Per Pupil. This measure was obtained from Department of Education records. It was computed by dividing the amount of money received from the State for public education (less money for community colleges) by the number of pupils in the district (as of the fourth Friday of the school year).
- 12. K-12 Instructional Expense Per Pupil. The K-12 instructional expense per pupil was also computed for each district from records held in the Department of Education. It was computed by dividing the district's total instructional expense (less community college instructional expense) by the number of pupils in the district (as of the fourth Friday of the school year).
- 13. Total Current Operating Expenditure Per Pupil. This measure was obtained from records held in the Department of Education. It was computed by dividing the district's total current operating expenditure (less community college expenditure) by the number of pupils in the district (as of the fourth Friday of the school year).



VOCABULARY

14. <u>Vocabulary</u>. The Assessment Battery included fifty verbal analogy problems which measured students' knowledge of the meaning of words and their relationships. The <u>vocabulary</u> score was obtained from the number of correct responses to these problems.

BASIC SKILLS ACHIEVEMENT

- 15. Reading. The Assessment Battery included forty questions which tested students' reading achievement, vocabulary, and paragraph comprehension. The reading score was obtained from the number of correct responses to these questions.
- 16. English Expression. The Assessment Battery included forty-five questions at the fourth grade level and fifty-five questions at the seventh grade level which tested students' ability to recognize errors in spelling, use effective expression, identify correct word choices, and apply rules of grammar, punctuation, and capitalization. The English expression score was obtained from the number of correct responses to these questions.
- 17. <u>Mathematics</u>. The Assessment Battery included thirty questions which tested pupils' achievement in reasoning and problem solving, geometry and measurement, numbers and operations, relations, functions and graphs, and mathematical sentences and systems. The <u>mathematics</u> score was obtained from the number of correct responses to these questions.
- 18. <u>Composite Achievement</u>. The <u>composite achievement</u> score was built by averaging the scores of the <u>reading</u>, <u>English</u>



expression, and mathematics sections of the Assessment
Battery. The vocabulary score was not averaged into the
composite achievement score.



IV. NORM TABLES AND EDUCATION PROFILES

This section of the booklet describes the norm tables which are included in the right-hand pocket of the folder. It also explains how the data presented in the local district's computer printout may be plotted onto the norm tables to create district-level and school-level education profiles.

A. Explanation of the Norm Tables

Separate norm tables have been prepared from the <u>fourth</u> and <u>seventh</u> grade Assessment data. There are tables based on <u>district</u> scores and tables based on <u>school</u> scores. The tables have been prepared using <u>State</u> data, <u>region</u> data, <u>community</u> type data, and data <u>within</u> regions according to <u>community</u> type.

Local school officials will receive a total of fourteen norm tables: four tables based on State-wide data (one fourth grade district table, one fourth grade school table, one seventh grade district table, and one seventh grade school table); four tables based on data from the district's region; four tables based on data from the district's community type; and two tables based on data from schools of the same community type within the schools' region. Note: Some districts will only receive thirteen norm tables because, when districts were grouped by region according to community type, certain of these groupings contained insufficient data to construct seventh grade norm tables.

⁵Seventh grade school tables according to community type within region were not constructed for the following: Region 1/Cities, Region 1/Rural, Region 3/Cities, Region 3/Towns, and Region 4/Cities. A complete listing of Michigan's school districts organized by community type within geographic regions is included as Appendix C of this booklet.



The norm tables were constructed by computing percentile distribution is butions for each Assessment variable. Each percentile distribution is a ranking of district scores which is divided into one hundred equal parts. Each part has an equal number—one per cent—of the total number of district scores. Percentile distributions are useful in showing where a percentile score lies in relation to other scores. A score which is at the fiftieth percentile is at the median (middle) of the distribution; a score at the seventy—fifth percentile is above seventy—five per cent—or three-quarters—of the scores in the distribution.

The norm tables also present the mean, standard deviation, and number of cases used in computing the distribution for each variable. FIGURE 2 provides an example of a norm table constructed with State-wide, district-level fourth grade data. This table indicates that the State-wide median--50th percentile--district score on socioeconomic status (SES) was 48.03. The 75th percentile score was 49.87 and the 25th percentile score was 46.53. In the bottom three rows of the table are the mean score, standard deviation, and number of districts used in the calculations for each variable. That is, the mean district score on socioeconomic status was 48.47; the standard deviation was 3.21; and 579 districts were used in calculating these values.

FIGURE 3 provides an example of a norm table constructed with State-wide, school-level, fourth grade data. The tables in FIGURES 2 and 3 are identical to the State-wide fourth grade tables included for the local district's use.

B. Explanation of the Michville District-Level Education Profile

The line on the State-wide table in FIGURE 2 is the fourth grade Michville education profile. The scores that have been plotted



MICHVILLE GRADE 4 DISTRICT PROFILE

DISTRICT NORMS

	GRADE 4																-	
					VARIABLES /	VARIABLES ASSUMED TO IN		СНІЕУЕМЕ	FLUENCE ACHIEVEMENT ("INPUTS")						ACHIEV	ACHIEVEMENT ("OUTPUTS")	UTPUTS")	
	SES	ATTITUDI	ATTITUDES AND ASPIRATIONS	TIONS	35	SCHOOL HUMAN	RESOURCES			SCHO	OL FINANCIA	SCHOOL FINANCIAL RESOURCES				BASIC SKILLS	8	JISVE
	SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERIENCE	PERCENTAGE OF TEACHERS WITH MASTERS OR ABOVE	AVERAGE TEACHER SALARY	STATE EQUALIZED VALUATION PER PUPIL	LOCAL REVENUE PER PUPIL	STATE SCHOOL AID PER PUPIL	K-12 INSTRUCTIONAL EXPENSE PER PUPIL	TOTAL CURRENT OPERATING EXPENSE PER PUPIL	VOCABULARY	READING	EXPRESSION	MATHEMATICS	SKILLS CGAPOSITE ACHIEVEMENT
95	54.00	52.06	52.92	24.47	29,45	14.67	37.46	9864	27783	899	402	595	795	66.42	55.24	55.78	55.69	55.21
8	52.18	51.49	51.84	53.55	28.09	13.58	33.16	8478	21962	517	384	539	733	53.85	54.24	24.50	54.35	54.20
85	51.28	51.11	51.29	52.97	27.01	12.81	29.25	9173	19461	450	369	5.08	629	53.22	53.62	53.71	53.58	53.53
98	50.45	50.75	50.88	52.65	26.56	12,19	25.94	8949	17679	607	357	486	651	52.72	53.09	53.25	52.97	52.99
7.5	49.87	50.42	50.60	52.40	26.11	11.66	24.01	8761	16305	380	346	897	629	52.24	52.57	52.70	52.50	52.57
2	69.6	50.13	50.37	52.11	25.66	11.24	22,26	9798	7271	356	336	452	809	51.90	52.21	52.29	52.10	52.16
65	48.9	49.89	50.16	51.77	25.22	10.86	4.4	8530	4217	33	325	438	965	23.18	51.93	06.12	51.73	51.81
ноіт 8	48.59	49.66	49.97	51.57	24.83	10,49	8.70	8415	13310	315	31.5	625	583	51.25	51.67	55*15	51.46	51.53
uaist K	48.30	49.45	49.78	51.38	24.49	10.10	17.62	8311	12444	299	306	619	\	06*05	51.44	51.21	51.20	51.27
S .	48.03	49.25	49.55	51.15	24.16	9.71	16.48	8209	11925	283	298	410	260	09*05	51.20	50.83	50.93	50.93
тина: \$	47.76	49.00	49.30	18.0	23.82	9.33	15.38	9018	90711	269	289	400	848	50.34	50.89	15.02	o \ .∕\$	50.64
8 4	47.46	48.76	80.67	50.6	23.48	86.8	14.29	/ods	10887	255	281	393	538	50.05	50.54	50.20	50.18	50.36
35	47.16	48.44	48.8	50.36	23.15	8.62	13.15	200	10367	241	74	385	528	49.75	50.17	76.64	49.83	50.07
æ	46.87	48.14	09.76	50.10	22.72	8.25	11.92	9777	8786	227	267	377	518	4, 37	49.84	667	49.64	49.77
25	46.53	7.86	48.32	49.84	22.23	7.88	10.68	7662	7226	212	260	370	507	48.90	49.48	9.31	48.96	9.39
70	46.14	4.49	48.02	49.44	21.74	7.50	8.67	7503	8500	197	251	362	497	48.47	60.03	48.92	48.39	76 87
15	45.70	47.00	47.72	48.94	1.25	6.9	6.30	7291	7923	182	237	341	482	48.01	48.46	48.45	47.82	48.40
2	45.25	46.25	47.25	48.43	20, 38	6.6	2.46	6896	7246	160	219	311	454	47.37	47.59	47.59	47.09	47.62
3	14.41	45.28	46.24	47.41	19.24	5 63	0.13	5957	6568	133	186	260	364	46.38	46.18	45.98	46.10	46.44
HEAN	48.47	48.99	49.47	51.06	24.26	10.04	17.60	8146.80	13947.28	320.98	300.16	419.84	575.52	99.05	51.01	50.95	50.81	50.94
STANDARD	3.21	2.23	2.17	2.10	3.66	3.50	11.07	1167.30	7882.42	165.03	72.20	96.53	134,03	2.73	2.68	2.79	2.97	2.66
NUMBER	579	579	579	579	585	585	585	583	623	623	620	623	623	585	585	585	585	585

MICHVILLE SCHOOL DISTRICT



are the Michville district-level average scores on the Assessment measures.

This district-level education profile for Michville (FIGURE 2) was constructed as follows:

Step One. Michville's fourth grade score on socioeconomic status, 50.2, was located on the line of figures opposite DISTRICT MEAN under 4th GRADE DISTRICT SUMMARY of the Michville printout (see FIGURE 1).

Step Two. The point in the socioeconomic status column of the district-level norm table corresponding to 50.2 was marked (see FIGURE 2). Michville's socioeconomic status was found to fall between 49.87 and 50.45, or at about the seventy-eighth percentile on the State-wide distribution of fourth grade district scores.

Step Three. Steps one and two were repeated for each variable listed in the Michville printout. For example (see FIGURE 2), Michville's fourth graders scored 47.2 (about the seventeenth percentile) on Attitude A: Importance of School Achievement and 48.7 (about the thirty-second percentile) on Attitude B: Self Perception.

Step Four. A line was drawn connecting the points plotted on the norm table (see FIGURE 2). Thus it can be seen how Michville's scores compare with the State-wide percentile distribution for each variable.

C. Explanation of the Michville School-Level Education Profiles

Michville's school-level education profiles were prepared only with Assessment data gathered at the school building level; that is, since human and financial resource data were available only at the district level, they were not included in the school norm tables. The procedure used was as follows (see FIGURE 3):

Step One. Able Elementary School's fourth grade score on socio-economic status, 52.4, was located in the row of figures opposite SCHOOL MEAN on the Michville computer printout (see FIGURE 1). The Bush Elementary School mean on SES was found to be 48.5.

Step Two. The appropriate points in the socioeconomic status column of the school-level norm table were found and marked (see FIGURE 3). Able's SES score of 52.4 was found to fall between 51.60 and 52.46, or near the eightieth percentile. Bush's score of 48.5 was found to fall between 48.32 and 48.68 or at about the forty-seventh percentile on the State-wide distribution of fourth grade school scores.



MICHVILLE GRADE 4 SCHOOL PROFILES

SCHOOL NORMS

TPUTS") MATHEMATICS 56.73 55.30 54.46 53.68 53.03	BASIC SKILLS COMPOSITE ACHIEVEMENT 56.37 55.03 54.22 53.54
56.73 55.30 54.46 53.68 53.03	56.37 55.03
56.73 55.30 54.46 53.68 53.03	56.37 55.03
55.30 54.46 53.68 53.03	55.03 54.22
54.46 53.68 53.03	54.22
53.68	
53.03	53.54
-	52.96
52.44	52.41
51.96	51.93
51.51	51.50
51.06	51. 09
50.63	50.69
50020	50.30
49.7	49.86
49.21	49.41
48.55	48.91
47.91	8.24
47.10	47 39
46.14	46.32
44.71	44.88
42.40	42.40
50.33	50.34
4.14	3.98
	1
	51.51 51.06 50.63 50.20 49.7 49.21 48.55 47.91 47.10 46.14 44.71 42.40 50.33



FIGURE 3

Step Three. Steps one and two were repeated for the scores on each variable listed for the Able and Bush Elementary Schools' fourth grades (see FIGURE 3). Able's fourth graders scored 49.3 (about the fortieth percentile) and Bush's fourth graders scored 45.6 (about the sixth percentile) on Attitude A: Importance of School Achievement.

Step Four. Lines were drawn on the norm table connecting the points for each school (see FIGURE 3). It is possible to compare the two elementary schools' fourth grades with each other and to relate their scores to the average scores of all fourth grades, as a group, in the State.

D. Uses of the Education Profiles

The introduction to this booklet stated that construction of aducation profiles would enable school officials and citizens to understand the levels of educational performance and the levels of factors related to performance in their district and schools. FIGURES 2 and 3 make this possible for Michville.

its fourth grade students scored low on composite achievement and reading and below the median on vocabulary. Its fourth grade students also scored low on Attitude A: Importance of School Achievement, below the median on Attitude B: Self Perception, and high on socioeconomic status. Michville has a low pupil/teacher ratio relative to the State median. It is above the median in percentage of teachers with masters or above and below the median on average teachers salary.

FIGURE 3 also provides Michville's citizens and educators with interesting information about its two elementary schools. It clearly shows that the fourth grade children of Able Elementary School scored consistently higher on the Assessment variables than did the fourth grade children of Bush Elementary. This might imply that the children of Bush Elementary have a need for compensatory education assistance.



It is hoped that construction of educational profiles similar to these constructed for Michville will enable school officials and citizens throughout Michigan to gain greater understanding about the relative standing of their district and its schools and therefore be helpful to them as they make decisions about the allocation of educational resources and the design of curricula.

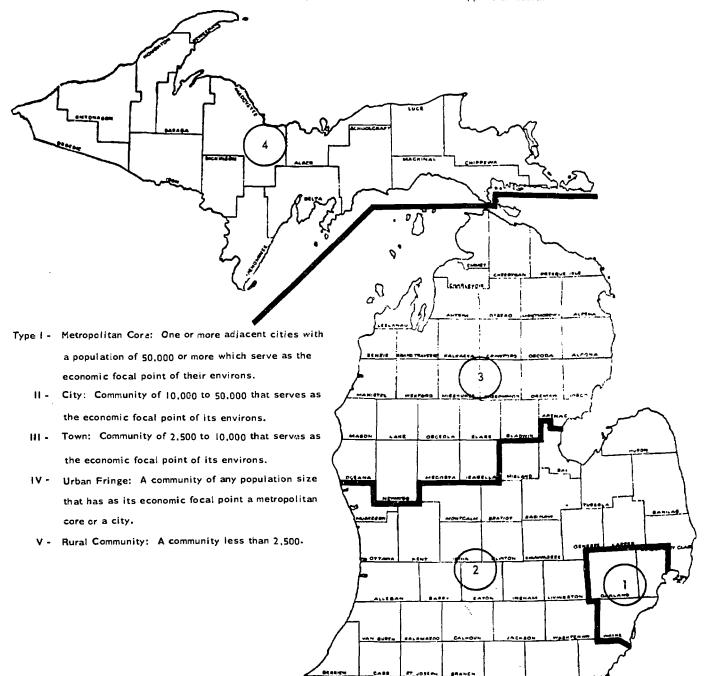


APPENDIX A

REGION AND COMMUNITY TYPE CATEGORIES

Region I - Wayne, Oakland and Macomb Counties.

- 2 All counties in Southern Michigan that are south of and including Muskegon. Kent. Montcalm, Gratiot, Midland and Bay counties. This excludes Region I.
- 3 All counties that are north of the above mentioned line and that are in the Lower Peninsula.
- 4 All counties that are in the Upper Peninsula.





APPENDIX B

DEFINITIONS

- MEAN an average score found by adding the score of each individual in a group to obtain a group score, then dividing the group score by the number of individuals in the group.
- MEDIAN the mid-point of a group of scores. The median is chosen so that there will be an equal number of scores above and below the chosen point.
- PERCENTILE a value, at or below which falls a given per cent of the scores obtained by measuring all individuals in a given comparison group. If, for example, the 25th percentile is a school mean of 48.00, then 25 per cent of the school means fall at or below 48.00.
- STANDARD DEVIATION a measure of spread or dispersion among a group of scores. Typically about two-thirds of the scores will be found within one standard deviation above and below the mean, and over 99 per cent within three standard deviations above and below the mean.
- VARIABLE a quantity which may have any one of a set of possible values.



APPENDIX C.

Listing of Michigan School Districts
by Region and Community Type



MICHIGAN SCHOOL DISTRICTS **GROUPED BY REGION AND COMMUNITY TYPE**

Region 1

=			
II	METROPOLITAN CORE CITIES	50-020	East Detroit City Sch Dist
		82-250	
82-010	Detroit City Sch Dist	82-210	
82-060	Hamtramck City Schs	63-200	
82-070	5	63-020	
63-030	Pontiac City Sch Dist	50-090	
		82-180	••*
		50-100	The tree of the contract of th
	II CITIES	82-050	
		82-290	
50-160	Mt Clemens Comm Sch Dist	82-055	
63-100		82-300	
	Plymouth Comm Sch Dist	82-320	
	,	63-130	Hazel Park City Sch Dist
		82-330	
	III TOWNS	82-080	
	TTT TONING	50-140	
50-040	Anchon Dow Col. Dina	50-120	Lake Shore Pub Schs
63-210		50-130	
	Holly Area Sch Dist	63-280	
63-220		δ2 - 090	
82-340		82 - 095	
63-230		63-140	
82-390		82-045	<u> </u>
63-110		82-220	Melvindale N Allen Pk S D
50-180			
63-260		63-250 82-110	
5 0- 190			
82-130		82-120	River Rouge City Schs
82-430		82-400	Riverview Comm Sch Dist
63-290	Walled Lake Cons Sch Dist	50-030	Roseville City Sch Dist
		63-040	Royal Oak City Sch Dist
	TH HDDAN BRINGE	50-200	South Lake Schs
	IV URBAN FRINGE	82-140	South Redford Sch Dist
_	•	63-060	Southfield Pub Sch Dist
82-020		82-405	Southgate Comm Sch Dist
63-070		82-150	Taylor Sch Dist
63-050	Be, aley City Sch Dist	82-155	Trenton Pub Schs
63-010	Birmingham City Sch Dist	50-210	
63-080	Bloomfield Hills Sch Dist	50-220	Van Nyke Comm Schs
50-010		50-230	
82-025	Cherry Hill Sch Dist	50-240	
50-080	Chippewa Valley Schs	82-160	Wayne Comm Schs
63-150	City of Troy Sch Dist	63-160	
63-090		82-240	Westwood Comm Schs
63-270	Clawson City Sch Dist	82-365	Woodhaven Sch Dist
	Clintondale Pub Schs	82-170	Wyandotte City Sch Dist



50-070 Clintondale Pub Schs 82-230 Crestwood Sch Dist 82-030 Dearborn City Sch Dist 82-040 Dearborn Heights Sch Dist 7

Woodhaven Sch Dist 82-170 Wyandotte City Sch Dist

Region 1, continued

V. RURAL

50-050	Armada Area Schs
63-180	Brandon Twp Sch Dist
63-190	Clarkston Comm Sch Dist
50-170	New Haven Comm Schs
63-240	So Lyon Comm Schs
63-300	Waterford Twp Sch Dist

Region 2

I METROPOLITAN CORE CITIES

81-010	Ann Arbor City Sch Dist
13-020	Battle Creek City Schs
09-010	Bay City Sch Dist
25-010	Flint City Sch Dist
41-010	Grand Rapids City Sch Dist
38-170	Jackson Union Sch Dist
39-010	Kalamazoo City Sch Dist
33-020	Lansing Pub Sch Dist
61-010	Muskegon City Sch Dist
61-020	Muskegon Hgts City Sch Dist
73-010	Saginaw City Sch Dist

II CITIES

46-010	Adrian City Sch Dist
13-010	Albion City Schs
11-010	Benton Harbor City Sch Dist
70-010	Grand Haven City Sch Dist
70-020	Holland City Sch Dist
56-010	Midland City Sch Dist
58-010	Monroe City Pub Schs
11-300	Niles Comm Sch Dist
78-110	Owosso Pub Sch Dist
74-010	Port Huron City Sch Dist
11-020	St Joseph City Sch Dist
81-020	Ypsilanti City Sch Dist

III TOWNS

74-030	Algonac Comm Sch Dist
03-030	Allegan Pub Schs
29-010	Alma Pub Schs
32-010	Bad Axe Pub Schs
58-030	Bedford Pub Sch Dist
34-080	Belding Area Sch Dist
46-040	Blissfield Comm Schs

L7 010	D.Jahann A Caba
47-010	Brighton Area Schs
11-310	Buchanan Pub Sch Dist
79-020	Caro Comm Schs
14-010	Cassopolis Pub Schs
23-030	Charlotte Pub Schs
81-040	Chelsea Sch Dist
73-110	Chesaning Union Schs
25-150	Clio Area Sch Dist
12-010	Coldwater Comm Schs
78-100	Corunna Pub Sch Dist
76-080	Croswell Lexington Comm S D
14-020	Dowagiac Union Schs
58-050	Dundee Comm Sch Dist
78-030	Durand Area Schs
74-050	East China Twp Sch Dist
23-050	Eaton Rapids Pub Schs
39-050	Galesburg Augusta Comm S D
59-070	Greenville Pub Schs
32-060	Harbor Beach Comm Sch
80-120	Hartford Pub Sch Dist
08-030	Hastings Pub Sch Dist
30-020	Hillsdale Comm Schs
47-070	Howell Pub Schs
70-190	Hudsonville Pub Sch Dist
34-010	Ionia City Sch Dist
29-060	Ithaca Pub Schs
44-010	Lapeer Pub Schs
41-170	Lowell Area Schs
13-110	Marshall Pub Schs
81-100	Milan Area Schs
61-180	Montague Pub Schs
11-200	New Buffalo Area Sch Dist
03-020	Otsego Pub Schs
80-160	Paw Paw Pub Sch Dist
78-080	Perry Pub Sch Dist
03-010	Plainwell Comm Schs
34-110	Portland Pub Sch Dist
41-210	Rockford Pub Schs
29-100	Sai nt Louis Pub Schs
81-120	Saline Area Sch Dist
79-145	Sebewaing Unionville Schs
80-010	South Haven Pub Schs
41-240	Sparta Area Schs
19-140	St Johns Pub Schs
75-010	Sturgis City Sch Dist
25-180	Swartz Creek Comm Sch Dist
46-140	Tecumseh Pub Schs
75-080	Three Rivers Pub Sch Dist
79-150	Vassar Pub Schs
39-170	Vicksburg Comm Schs
	• • • • • • • • • • • • • • • • • • • •



Region 2, continued

III TOWNS, continued

33-230	White Hall Dist Schs Williamston Comm Schs Zeeland Pub Sch Dist
	IV URBAN FRINGE

25 120	Astrono Com Sab Diet
25-130	Atherton Comm Sch Dist
09-030	Bangor Twp Schs
19-100	Bath Comm Schs
25-240	Beecher Sch Dist
25-060	Bendle Pub Sch Dist
25-230	Bentley Comm Sch Dist
73-180	Bridgeport Comm Sch Dist
73-080	Buena Vista Sch Dist
25-080	Carman Sch Dist
73-030	Carrollton Sch Dist
39-030	Comstock Pub Schs
41-080	Comstock Park Sch Dist
25-140	Davison Comm Schs
19-010	DeWitt Pub Schs
41-090	E Gr Rapids Pub Schs
38-090	E Jackson Pub Schs
33-010	East Lansing Sch Dist
09-050	Essexville Hampton Sch Dist
25-120	Flushing Comm Schs
41-110	Forest Hills Pub Schs
61-420	Fruitland Twp Sch Dist 1F
61-080	Fruitport Comm Schs
25-070	Genesee Sch Dist
41-120	Godfrey Lee Pub Sch Dist
41-020	Godwin Hgts Pub Schs Grand Ledge Pub Schs
23-060	Grand Blanc Comm Schs
25-030	
41-130	Grandville Pub Schs Hagar Twp Sch Dist 6
11-670	
13-070	Harper Creek Comm Schs Haslett Pub Schs
33-060	Holt Pub Schs
33-070 25-110	Kearsley Comm Schs
41-140	Kelloggsville Pub Schs
41-145	Kenowa Hills Pub Schs
41-160	Kentwood Pub Schs
11-030	Lakeshore Sch Dist
13-090	Lakeview Cons Sch Dist
46-090	Madison Sch
74-100	
33-130	
38-120	
61-060	Mona Shores Sch Dist
25-040	Mt Morris Cons Schs
-	

51-230	North Muskegor City Sch Dist
1-025	Northview Pub Sch
33-170	Okemos Pub Schs
23-490	Oneida Twp Sch Dist 3
61-190	Orchard View Schs
39-130	Parchment Sch Dist
13-120	Pennfield Sch Dist
39-140	Portage Pub Schs
23-090	Potterville Pub Schs
61-220	Reeths Puffer Schs
73-040	Saginaw Twp Comm Schs
11-830	Sodus Twp Sch Dist 5
13-030	Springfield City Sch Dist
70-300	Spring Lake Pub Sch Dist
73-255	
38-020	Vandercook Lake Pub Sch Dist
33-215	
25-210	
81-150	Willow Run Pub Schs
41-02F	Wyoming Pub Schs

V RURAL

	V 1(01012
46-020 58-020 79-010 03-140 70-040 44-020 29-130 29-170 29-020 13-050 80-020 80-240 23-010 34-140 34-150 11-240 73-170 32-220 32-230 32-250 80-090 11-210	Bloomfield Twp Sch Dist 7F Bloomingdale Pub Sch Dist Brandywine Pub Sch Dist
•	Brandywine rub sch bist
29-040	Breckenridge Comm Schs
11-340	Bridgman Pub Sch
46-050	
12-020	Bronson Comm Sch Dist
76-060	Brown City Comm Sch Dist



Region 2, continued

V RURAL, continued

44-190 Burnside Twp Sch Dist 10F 73-200 Freeland Comm Sch Dist 29-050 Fulton Schs 38-020 Byron Center Pub Schs 11-160 Salien Twp Sch 38-020 Byron Area Schs 30-440 Salien Twp Sch Dist 4 Good Caledonia Comm Schs 30-010 Caledonia Comm Schs 30-010 Cambell Twp Sch Dist 4 44-240 Good land Twp Sch Dist 59-020 Carson City Crystal Area S D 274-040 Carson City Crystal Area S D 25-050 Goodland Twp Sch Dist 38-050 Casco Twp Sch Dist 4 39-065 Gull Lake Comm Schs 32-030 Casco Twp Sch Dist 4 39-065 Gull Lake Comm Schs 32-030 Casco Tity Pub Schs 38-010 Hamilton Comm Schs 38-010 Casco Twp Sch Dist 4 39-065 Gull Lake Comm Schs 38-010 Casco Twp Sch Dist 59-125 Central Montcalm Pub Schs 38-010 Hamilton Comm Schs 38-010 Church Sch 32-030 Central Montcalm Pub Schs 38-010 Hamilton Comm Schs 32-030 Central Montcalm Pub Schs 32-040 Church Sch 32-040 Coleann Comm Schs 32-040 Colean Twp Sch Dist 15 Salien Sch 32-040 Coleann Comm Schs 32-040 Coleann Comm Schs 32-040 Coleann Comm Sch Dist 32-260 Colfax Twp Sch Dist 15 Salien Sch 32-040 Colfax Twp Sch Dist 15 Salien Sch 34-360 Coleann Comm Sch 32-290 Colfax Twp Sch Dist 15 Salien Sch 34-360 Coleann Sch 32-290 Colfax Twp Sch Dist 25 Salien Twp Sch Dist 27 Salien Twp Sch Dist 27 Salien Twp Sch Dist 27 Salien Twp Sch Dist 38-080 Salien Twp Sch Dist 5 Salien Twp Sch Dist				
15-020 Burr Oak Comm Sch Dist 29-050 Fulton Schs 41-040 Byron Center Pub Schs 11-160 Galien Twp Sch Galien Twp Sch Servon Area Schs 30-440 Ganges Twp Sch Dist 41-050 Caledonia Comm Schs 44-240 Godland Twp Sch Dist 34-250 Campbell Twp Sch Dist 44-260 Goodland Twp Sch Dist 34-250 Carson City Crystal Area S D 25-050 Goodland Twp Sch Dist 35-020 Carson City Crystal Area S D 25-050 Goodland Twp Sch Dist 38-050 Garson City Crystal Area S D 38-050 Goodland Twp Sch Dist 38-050 Garson City Crystal Area S D 38-050 Garson Crystal	56-020	Bullock Creek Sch Dist	13-340	Fredonia Twp Sch Dist 2F
A1-040 Byron Center Pub Schs 33-040 Ganges Twp Sch 30-010 Caledonia Comm Schs 30-010 Cambell Twp Sch Dist 44-240 Goodland Twp Sch Dist 34-250 Campbell Twp Sch Dist 44-240 Goodland Twp Sch Dist 34-250 Campbell Twp Sch Dist 34-250 Carson City Crystal Area S D 25-050 Goodland Twp Sch Dist 38-050 Carson City Crystal Area S D 25-050 Goodland Twp Sch Dist 32-030 Carson City Crystal Area S D 38-050 Carson City Crystal Area S D 32-050 Casco Twp Sch Dist 39-065 Guil Lake Comm Schs 32-030 Casco Twp Sch Dist 39-065 Guil Lake Comm Schs 38-050 Casco Twp Sch Dist 44-270 Casco Twp Sch Dist 47-270 Casco Twp Sch Dist 47	44-190	Burnside Twp Sch Dist 10F	73-200	Freeland Comm Sch Dist
78-020 Byron Area Schs 03-440 Ganges Two Sch Dist 41-050 Caledonia Comm Schs 80-110 Gobles Pub Sch Dist 30-010 Canden Frontier Sch 44-240 Goodland Twp Sch Dist I 34-250 Campbell Twp Sch Dist 4 44-260 Goodland Twp Sch Dist I 74-040 Capac Comm Sch Dist 44-270 Goodland Twp Sch Dist 2 76-070 Carson City Crystal Area S D 25-050 Goodland Twp Sch Dist 3 32-030 Casco Twp Sch Dist 4 39-065 Guall Lake Comm Schs 32-030 Casse City Pub Sch 80-310 Hamilton Comm Schs 41-070 Cedar Springs Pub Schs 38-100 Hanver Horton Schs 59-125 Centreal Montcalm Pub Sch 38-100 Hanver Horton Schs 59-125 Centreal Montcalm Pub Sch 13-060 Hanver Horton Schs 46-060 Climax Scotts Comm Sch Dist 13-080 Homer Comm Sch 32-040 Colifax Twp Sch Dist 1F 44-060 Hudson Area Schs 56-030 Colfax Twp Sch Dist 2F 34-360 Ionia Twp Sch Dist 2F 22-	75-020	Burr Oak Comm Sch Dist	29-050	Fulton Schs
78-020 Byron Area Schs 03-440 Ganges Tup Sch Dist 4 41-050 Caledonia Comm Schs 80-110 Gobles Pub Sch Dist 1 30-010 Canden Frontier Sch 44-240 Goodland Tup Sch Dist 1 34-250 Campbell Tup Sch Dist 4 44-260 Goodland Tup Sch Dist 2 34-020 Carson City Crystal Area S D 25-050 Goodland Tup Sch Dist 3 76-070 Carsonville Comm Sch Dist 4 38-050 Grass Lake Comm Schs 3 32-030 Caseville Pub Sch Dist 4 39-065 Gull Lake Comm Schs 3 32-030 Cass City Pub Schs 8 38-100 Hamilton Tup Sch Dist 6 41-070 Cedar Springs Pub Schs 91st 5 38-100 Hannilton Tup Sch Dist 6 41-070 Cedar Springs Pub Sch Dist 7 73-210 Hemlock Pub Sch Dist 6 32-280 Central Montcalm Pub Sch Dist 37 73-210 Hemlock Pub Sch Dist 6 32-040 Church Sch 13-080 Homer Comm Sch Dist 1 32-200 Climax Scotts Comm Schs 46-080 13-080 Homer Comm Sch Dist 1 32-270 Colfax Tup Sch Dist 1F 44-080 Hulas	41-040	Byron Center Pub Schs	11-160	Galien Twp Sch
A1-050 Caledonia Comm Schs A9-240 Goodland Twp Sch Dist 1 34-250 Campbell Twp Sch Dist 4 A4-240 Goodland Twp Sch Dist 2 74-040 Carson City Crystal Area S D 25-050 Goodland Twp Sch Dist 3 26-070 Carsonville Comm Sch Dist 3 38-050 Carsonville Comm Sch Dist 3 38-050 Carsonville Comm Sch Dist 3 38-050 Carsonville Pub Sch 38-050 Carsonville Pub Sch 38-050 Carson City Pub Sch 38-050 Carsonville Pub Sch 38-050 Carsonville Pub Sch 38-050 Carson City Pub Sch 38-100 Hamilton Comm Sch 38-050 Carterville Pub Sch Dist 73-210 Memlock Pub Sch Dist 7	78-020		03-440	Ganges Twp Sch Dist 4
30-010 Camden Frontier Sch Dist			80-110	Gobles Pub Sch Dist
34-250 Campbell Twp Sch Dist 4 44-260 Goodland Twp Sch Dist 2 74-040 Capac Comm Sch Dist 44-270 Goodland Twp Sch Dist 2 76-070 Carson City Crystal Area S D 25-050 Goodland Twp Sch Dist 3 32-203 Casco Twp Sch Dist 4 39-065 Grass Lake Comm Schs 3 32-030 Casco Twp Sch Dist 4 39-065 Gull Lake Comm Schs 5 41-070 Casso Tity Pub Sch Schs 80-390 Hamilton Comm Sch Dist 6 41-070 Cedar Springs Pub Schs 83-100 Hamilton Twp Sch Dist 6 75-030 Centreville Pub Sch Dist 7 73-210 Hemlock Pub Sch Dist 6 75-030 Centreville Pub Sch Dist 7 73-210 Hemlock Pub Sch Dist 14 75-040 Chester Twp Sch Dist 7 73-210 Hemlock Pub Sch Dist 14 75-040 Culmax Scotts Comm Schs 5 93-070 Hopkins Pub Sch 5 76-030 Centreville Pub Sch Dist 17 73-210 Hemlock Pub Sch 5 78-201 Culfax Twp Sch Dist 17 74-000 Hopkins Pub Sch 5 78-202 Colfax Twp Sch Dist 27 74-000 Hudson Area Sch			44-240	Goodland Twp Sch Dist 1
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73-070	-			•
03-250 Casco Twp Sch Dist 4 39-065 Gull Lake Comm Schs 79-030 Casco Lity Pub Sch 03-100 Hamilton Comm Schs 41-070 Cass City Pub Schs 80-390 Hamilton Twp Sch Dist 6 59-125 Central Montcalm Pub Schs 47-060 Hartland Cons Sch 75-030 Centreville Pub Sch Dist 73-210 Hemlock Pub Sch Dist 23-280 Chester Twp Sch Dist 3F 61-120 Holton Pub Sch 32-040 Church Sch 13-080 Homer Comm Schs 39-020 Climax Scotts Comm Sch 93-070 Hopkins Pub Sch 46-060 Climax Scotts Comm Sch 46-080 Hudson Area Schs 56-030 Colfax Twp Sch Dist 58-070 Ida Pub Sch Dist 32-290 Colfax Twp Sch Dist 2 34-360 Ionia Twp Sch Dist 2F 32-290 Colfax Twp Sch Dist 7 34-390 Ionia Twp Sch Dist 5 11-330 Coloma Comm Schs 58-080 Jefferson Cons Sch Dist 6 38-040 Coloma Comm Sch Dist 70-175 Jenison Pub Sch 5 75-040 Coloma Sch Dist				Grass Lake Comm Schs
32-030 Caseville Pub Sch 79-030 Caseville Pub Sch 80-390 Hamilton Comm Schs 80-390 Hamilton Twp Sch Dist 6 14-070 Cedar Springs Pub Schs 38-100 Hamilton Twp Sch Dist 6 14-070 Cedar Springs Pub Schs 38-100 Hamilton Twp Sch Dist 6 15-200 Centreville Pub Sch Dist 73-210 Hemlock Pub Sch Dist 73-210 Hemlock Pub Sch Dist 13-080 Homer Comm Schs 13-080 Homer Comm Sch Dist 13-090 Hamer Comm Sch Dist 13-090 Hamer Comm Sch Dist 13-090 Homer Comm Sch Dist 13-090 Homer Comm Sch				Gull Lake Comm Schs
19-030				
11-070 Cedar Springs Pub Schs 38-100 Hanover Horton Schs 47-060 Hartland Cons Sch 47-060 Hartland Cons Sch 47-060 Hartland Cons Sch Hopkins Pub Sch Hartland Cons Sch Hopkins Pub Sch Hopkins Pub Sch Hartland Cons Sch Hartland C				
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47-030 Fowlerville Comm Schs 58-090 Mason Cons Sch Dist	-			
	73-190	Frankenmuth Sch Dist	80-150	Mattawan Cons Sch Dist



Region 2, continued

V RURAL, continued

79-090	Mayville Comm Schs	32-450 Rubicon Twp Sch Dist 4
32-410	Meade Twp Sch Dist 3	46-130 Sand Creek Comm Schs
74-120	Memphis Comm Schs	76-210 Sandusky Comm Sch Dist
75-060	Mendon Comm Sch Dist	76-710 Sanilac Twp Sch Dist 1
56-050	Meridian Pub Sch Dist	34-120 Saranac Comm Sch Dist
73-230	Merrill Comm Sch Dist	03-080 Saugatuck Pub Schs
79-100	Millin:ton Comm Schs	39-160 Schoolcraft Comm Schs
59-045	Montabella Comm S D	34-760 Sebewa Twp Sch Dist 1F
25-260	Montrose Twp Schs	34-800 Sebewa Twp Sch Dist 8
46-100	Morenci Area Schs	29-790 Seville Twp Sch Dist 4F
78-060	Morrice Area Schs	32-530 Sheridan Twp Sch Dist 4
75-300	Mottville Twp Sch Dist 3F	32-540 Sheridan Twp Sch Dist 5
38-130	Napoleon Sch Dist	32-510 Sheridan Twp Sch Dist 2F
78-070	New Lothrop Area Pub S D	32-610 Sigel Twp Sch Dist 3
13-580		32-620 Sigel Twp Sch Dist 4
30-050		32-630 Sigel Twp Sch Dist 6
32-080	_	32-600 Sigel Twp Sch Dist IF
34-480	North Plains Twp Sch Dist 1F	38-150 Springport Pub Sch
44-090	North Branch Area Schs	73-240 St Charles Comm Sch Dist
38-140	Northwest Sch Dist	33-200 Stockbridge Comm Schs
75-100		58-100 Summerfield Sch Dist
61-065		29-110 Sumner Elem Sch
23-030		13-130 Tekonsha Comm Sch
		08-050 Thornapple Kellogg Sch Dist
46-110 34-510		59-080 Tri Co Area Schs
		32-170 Ubly Comm Schs
34-520		13-135 Union City Comm Sch Dist
34-530		32-650 Verona Twp Sch Dist IF
34-540		32-680 Verona Twp Sch Dist 5
34-600		59-150 Vestaburg Comm Schs
34-610		30-080 Waldron Area Schs
19-120		11-320 Watervliet Sch Dist
32-090		03-040 Wayland Union Schs
34-040		33-220 Webberville Pub Schs
76-180		70-070 West Ottawa Pub Sch Dist
19-125		38-010 Western Sch Dist
47-080		75-070 White Pigeon Comm Sch Dist
09-090 30-060		58-110 Whiteford Agri Sch Dist
		81-140 Whitmore Lake Pub Sch Dist
32-120		74-130 Yale Pub Sch Dist
32-130	Portland Twp Sch Dist 4F	
34-710 12-040		Region 3
61-210		T WEED A DOLL THAN CODE CITETES
		I METROPOLITAN CORE CITIES
30-070		(none)
32-140		Thones
79-110		
1!-033		
29-090		
34-750 23-590		
42-536	Novauna imb actionar is	



Region 3, continued

 OTETO
 CILIES

04-010	Alpena City Sch Dist
83-010	Cadillac Area Pub Schs
37-010	Mt Fleasant City Sch Dist
28-010	Traverse City Pub Sch Dist

III TOWNS

54-010	Big Rapids Pub Schs
15-050	Charlevoix Pub Sch Dist
16-015	Cheboygan Area Schs
18-010	Clare Pub Schs
62-040	Fremont Pub Sch Dist
69-020	Gavlord Comm Schs
26-040	Gladwin Comm Schs
53-040	Ludington Area Sch Dist
51-070	Manistee City Schs
24-070	Petoskey Sch Dist
71-080	Rogers Union Sch Dist
35-030	Tawas Area Schs
15-025	Twin Valley Pub Sch Dist

IV URBAN FRINGE

(none)

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05-010	Alba Pub Sch
01-010	Alcona Comm Schs
06-010	Arenac Eastern Sch Dist
60-010	Atlanta Comm Schs
06-020	Au Gres Sims Sch Dist
43-040	Baldwin Pub Sch Dist
37-040	Beal City Sch
51-020	Bear Lake Sch
15-010	Reaver Island Comm Schs
26-010	Beaverton Rural Schs
05-040	Bellaire Pub Sch
64-010	Benona Comm Sch Dist
10-015	Benzie Cc Central Schs
62-470	Big Jackson Sch Dist
15-030	Boyne Falls Pub Sch Dist
28-035	Buckley Comm Sch Dist
15-035	
69-070	
54-025	
57-100	Clam Union Twp Sch Dist 2

54-100	Colfax Twp Sch Dist 3F
68-030	Comins Twp Sch Dist
20-015	Crawford AuSable Schs
24-010	Cross Village Sch Dist
64-020	Elbridge Comm Sch Dist
05~060	Elk Rapids Schs
15-065	Ellsworth Comm Sch
67-020	Evart Pub Sch
40-060	Excelsior Twp Sch Dist 1
57-010	Falmouth Elem Sch Dist
18-020	Farwell Area Schs
64-030	Ferry Comm Sch Dist
28-060	Fife Lake Comm Sch Dist
10-025	Frankfort Area Schs
53-030	Freesoil Comm Sch Dist
40-110	Garfield Twp Sch Dist 3F
72-010	Gerrish Higgins Sch Dist
45-010	Glen Lake Comm Sch Dist
64-050	Golden Comm Sch Dist
54-140	Grant Twp Sch Dist 2
62-050	Grant Pub Sch Dist
28-220	Green Lake Twp Sch Dist 1F
	Ureen Lake Twp Sch Dist Ir
35-020	Hale Area Schs
24-020	Harbor Springs Sch Dist
18-060	Harrison Comm Schs
64-040	Hart Pub Sch Dist
62-060	Hesperia Comm Sch Dist
60-020	Hillman Comm Schs
72-020	Houghton Lake Comm Schs
16-050	Inland Lakes Sch Dist
69-030	Johannesburg-Central Sch
51-045	Kaleva Norman Dickson Schs
40-040	Kalkaska Pub Schs
28-090	Kingsley Area Sch Dist
57-020	Lake City Area Sch Dist
45-020	Leland Pub Sch Dist
24-030	Littlefield Pub Sch Dist
16-070	Mackinaw City Pub Schs
05-070	
83-060	Manton Cons Sch Dist
67-050	Marion Pub Sch
53-010	Mason Co Central Sch Dist
53-020	Mason Co Eastern Sch Dist
57-030	McBain Rural Ag Sch Dist
83-070	Mesick Cons Sch Dist
68-010	Mio Au Sable Sch
	Morley Stanwood Comm Schs
54-040	
62-070	Newaygo Pub Sch Dist
45-040	Northport Pub Sch Dist
40-140	Oliver Twp Sch Dist 2
71-050	Onaway Area Comm Sch Dist
51-060	Onekema Cons Sch



Region 3, continued

V RURAL, continued

35-010	Oscoda Area Schs
24-040	Peliston Pub Sch Dist
64-070	Pentwater Pub Sch Dist
67-055	Pine River Area Schs
62-080	Pineview Sch Dist
71-060	Posen Cons Sch Dist
67-060	Reed City Pub Schs
40-020	S Boardman Area Sch
64-080	Shelby Pub Sch Dist
37-060	Shepherd Pub Sch Dist
72-040	St Helen Sch Dist
06-050	Standish Sterl Comm Sch Dist
45-050	Suttons Bay Pub Sch Dist
69-040	Vanderbi/lt-Area Sch
65-045	W Branch Rose City Area Schs
64-090	Walkerville Rural Comm S D
64-095	Weare Crystal Comm Sch Dist
62-090	White Cloud Pub Schs
35-040	Whittemore Prescott Area S D
16-100	Wolverine Comm Sch Dist
	1

Region 4

I METROPOLITAN CORE CITIES

(none)

II CITIES

21-010	Escanaba Area Pub Schs
27-020	Tronwood Area Schs
52-170	Marquette City Sch Dist
55-100	Menominee Area Pub Sch
17-010	Sault Ste Marie Area Schs

III TOWNS

27-010	Bessemer City Sch Dist
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22-030	Breitung Township Sch Dist
36-015	Forest Park Sch Dist
21-020	Gladstone Pub Sch Dist
31-010	Hancock City Sch Dist
22-010	Iron Mountain City Sch Dist
52-180	Ishpeming Pub Sch Dist
07-040	L'anse Twp Sch Dist
31-130	Lake Linden Hubbell Sch Dist
77-010	Manistique Area Schs
02-070	Munising Pub Schs
E2-000	Negauree Sch Dist

22-025	Norway Vulcan Area Schs
66-050	Ontonagon Area Schools
31-110	Portage Twp Sch Dist
49-010	St Ignace City Sch Dist
48-040	Tahquamenon Area Schs
27-070	Wakefield Twp Sch Dist
36-025	West Iron County Sch Dist

IV URBAN FRINGE

(none)

V RURAL

31-020	Adams Twp Sch Dist
42-010	Allouez Twp Schs
07-010	Arvon Twp Sch Dist
02-010	Autrain Twp Sch
07-020	Baraga Twp Sch Dist
21-090	Bark River Harris Sch Dist
66-010	Bergland Comm Sch Dist
27-030	Bessemer Twp Sch Dist
21-065	Big Bay De Noc Sch Dist
49-020	Bois Blanc Pines Sch Dist
21-030	Brampton Twp Sch Dist
49-030	Brevort Twp Sch Dist
17-140	Brimley Pub Schs
02-020	Burt Twp Sch
31-030	Calumet Pub Sch Dist
31-040	Calumet Twp Sch Dist 2
55-010	Carney Nadeau Pub Schs
52-0 10	Champion-Humboldt Spurr S D
31-050	Chassell Twp Sch Dist
52-020	Chocolay Twp Sch Dist
07-030	Covington Sch Dist_
21-040	Delta Co Sch Dist 7
17-050	Detour Twp_Sch_
31-070	Elm River Twp Sch
52-030	Ely Twp Sch Dist
49-055	Engadine Cons Schs
66-045	Ewen Trout Creek Cons S D
21-100	Flat Rock Public Sch Dist
52-040	Forsyth Sch Dist
42-030	Grant Twp Schs
55-060	Hermansville Pub Sch
52-050	Ishpeming Twp Sch Dist
49-040	Les Cheneaux Comm Sch Dist
02-050	Limestone Twp Sch
49-110	Mackinac Island Pub Sch Dist
27-060	Marenisco Sch Dist

Region 4, continued

V RURAL, continued

Marquette Twp Sch Dist 52-060 Mathias Twp Sch 02-060 Moran Twp Sch Dist 49-070 National Mine Sch Dist 52-080 North Dickinson Co Sch Dist 22-045 Osceola Twp Sch Dist 31-100 Pickford Pub Schs 17-090 Powell Twp Sch Dist 52-100 Powers Snalding Pub Sch 55-110 Rapid River Pub Schs 21-060 Republic Michigamme Schs 52-110 Rock Pub Sch Dist 21-130 Rock River Twp Sch 02-080 Rudyard Twp Sch 17-110 Sands Twp Sch Dist 52-130 Skandia Sch Dist 52-140 St Ignace Twp Sch Dist 49-100 Stanton Twp Sch Dist 31-140 Stephenson Area Pub Schs 55-120 Watersmeet Twp Sch Dist 27-080 Wells Twp Sch Dist 52-160 White Pine Sch Dist 66-070 17-160 Whitefish Sch



APPENDIX D

BIBLIOGRAPHY OF PUBLISHED AND PLANNED ASSESSMENT REPORTS

- 1. Purposes and Procedures of the Michigan Assessment of Education.

 Lansing, Michigan: Michigan Department of Education, Assessment Report No. 1, 1969.
- 2. Activities and Arrangements for the 1969-70 Michigan Assessment of Education. Lansing, Michigan: Michigan Department of Education, Assessment Report No. 2, 1969.
- 3. Research into the Correlates of School Performance: A Review and Summary of the Literature. Lansing, Michigan: Michigan Department of Education, Assessment Report No. 3, 1970.
- 4. Levels of Educational Performance and Related Factors in Michigan.

 Lansing, Michigan: Michigan Department of Education, Assessment Report No. 4, 1970.
- 5. <u>Distribution</u> of <u>Educational Performance and Related Factors in Michigan</u>. Lansing, Michigan: Michigan Department of Education Assessment Report No. 5, 1970.
- 6. <u>Local District Report</u>. Lansing, Michigan: Michigan Department of Education, Assessment Report No. 6, 1970.
- 7. Levels of Educational Performance and Related Factors in Michigan:

 A Supplement. Lansing, Michigan: Michigan Department of Education, Assessment Report No. 7, 1970. (Tentative title; planned for August/September publication).
- 8. <u>Distribution of Educational Performance and Related Factors in Michigan</u>: A Supplement. Lansing, Michigan: Michigan Department of Education, Assessment Report No. 8, 1970. (Tentative title; planned for August/September publication).
- 9. Correlates of School Performance in Michigan. Lansing, Michigan:
 Michigan Department of Education, Assessment Report No. 9, 1970.
 (Tentative title; planned for September/October publication).



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LOCAL DISTRICT REPORT: EXPLANATORY MATERIALS

ERRATA

In the attempt to make Assessment results available to local districts as quickly as possible, four errors in <u>Local District Report: Explanatory Materials</u> went unnoticed until after the booklet was printed. Therefore the local district official is requested to make the following corrections:

- p. 1. The first sentence of the second paragraph should read: "This explanatory booklet has four sections."
- p. 2. The first line should read: "...profiles <u>similar to those prepared</u> for the hypothetical Michville district and its schools."
- p. 6. The seventh line of the first paragraph should read: "...included with these materials contains the local scores on these factors."
- p. 17. and all DISTRICT NORMS tables.

The figures in the column labeled PUPIL/TEACHER RATIO on the DISTRICT NORMS tables were erroneously printed in reverse order. This must be kept in mind when plotting district education profiles because the "better" a district is on this measure—that is, the lower its pupil/teacher ratio—the lower it will fall on the present percentile scale. It is therefore suggested that district officials reverse their pupil/teacher ratio percentile ranks when plotting the profiles. For example, a pupil/teacher ratio of 27.01, which would be plotted at the eighty—fifth percentile on the grade four Michigan table, should actually be plotted at the fifteenth percentile. Also, the correct pupil/teacher ratio for the fifteenth percentile, 27.01, should be written in, and the incorrect ratio, 21.25, should be crossed out.



SCHOOL HORMS

MICHIGAN

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		1	BLES ASSUM			ACHIEVEMENT ("OUTPUTS")						
		SES		ES AND ASP				BASIC SKILL		-		
		SOCIO ECONOMIC STATUS	Å IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	VOCABULARY	READING	ENGLISH EXPRESSION		BASIC SKILLS COMPOSITE ACHIEVEMENT		
	95	58.99	53.32	54.03	54.80	57.24	56.46	56.45	56.73	56.37		
	90	55.31	52.68	53.03	53.90	55.16	55.14	55.23	55.30	55.03		
	85	53.46	52.25	52.31	53.23	54.09	54.30	54.28	54.46	54.22		
	80	52.46	51.84	51.84	52.82	53.36	53.58	53.63	53.68	53.54		
	75	51.60	51.49	51.42	52.42	52.78	53.00	53.02	53.03	52.96		
	70	50.88	51.16	51.04	52.03	52,20	52.48	52.51	52.44	52.41		
	65	50.22	50.84	50.69	51.66	51.69	51.99	52.02	51.96	51.93		
NOIL	60	49.66	50.53	50.40	51.32	51.25	51.54	51.54	51.51	51.50		
TRIBU	55	49.17	50.23	50.11	50.97	50.80	51.13	51.08	51.06	51.09		
PERCENTILE DISTRIBUTION	50	48.68	49.95	49.83	50.61	50.36	50.77	50.64	50.63	50.69		
CENT	45	48.32	49.66	49.56	50.25	49.97	50.32	50.21	50.20	50.30		
PER	40	47.96	49.34	49.28	49.87	49.55	49.87	49.80	49.76	49.86		
	35	47.57	48.97	48.97	49.43	49.05	49.36	49.30	49.21	49.41		
	30	47.13	48.59	48.65	48.94	48.49	48.72	48.81	48.55	48.91		
	25	46.75	48.18	48.33	48.39	47.91	48.11	48.14	47.91	48.24		
	20	46.31	47.73	47.95	47.81	47.18	47.32	47.30	47.10	47.39		
	15	45.84	47.24	47.50	47.00	46.28	46.28	46.20	46.14	46.32		
	10	45.25	46.53	46.90	46.00	44.78	44.64	44.72	44.71	44.88		
	5	44.40	45.43	46.04	44.63	42.86	42.35	42.26	42.40	42.40		
MEA	'N	49.72	49.73	49.93	50.26	50.27	50.32	50.31	50.33	50.34		
STAND DEVIAT	ARD	4.47	2.48	2.50	3.13	4.07	4.06	4.10	4.14	3.98		
NUMB OF SCH		2433	2433	2433	2433	2492	2492	2492	2492	2492		



SCHOOL NORMS

		GRADE 4			301100	L NORMS				REGION :
			BLES ASSUM CHIEVEMEN				ACHIEVE	MENT ("OL	JTPUTS'')	
		SES	ATTITUE	ES AND ASP	IRATIONS			BASIC SKILLS		
		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	VOCABUL ARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT
	95	57.56	53.12	54.07	54.73	56.99	56.33	56.01	56.12	55.95
	90	54.64	52.35	53.04	53.94	54.89	54.95	54.77	54.94	54.65
	85	53.14	51.74	52.18	53.30	53.78	54.09	53.94	54.08	53.92
	80	52.05	51.30	51.69	52.86	53.17	53.45	53.24	53.36	53.28
	75	51.24	50.92	51.20	52.46	52.56	52.90	52.64	52.68	52.69
	70	50.42	50.57	50.74	52.09	51.97	52.36	52.18	52.14	52.15
	65	49.73	50.24	50.44	51.73	51.51	51.88	51.74	51.70	51.73
TION	60	49.20	49.96	50.16	51.43	51.06	51.46	51.29	51.27	51.34
TRIBL	55	48.78	49.68	49.90	51.08	50.57	51.08	50.79	50.91	50.95
PERCENTILE DISTRIBUTION	50	48.5"	49.41	49.63	50.70	50.16	50.73	50.39	50.53	50.55
CENTI	45	48.04	49.12	49.33	50.36	49.83	50.31	50.00	50.10	50.15
PER	40	47.70	48.76	49.01	50.01	49.46	49.87	49.59	49.63	49.76
	35	47.29	48.42	48.70	49.61	49.02	49.44	49.15	49.13	49.36
	30	46.92	48.03	48.41	49.12	48.53	48.93	48.76	48.53	48.94
	25	46.52	47.62	48.08	48.60	47.97	48.38	48.18	47.98	48.41
	20	46.12	47.23	47.69	48.04	47.37	47.80	47.52	47.30	47.67
	15	45.74	46.76	47.21	47.32	46.80	46.82	46.62	46.45	46.70
	10	45.14	46.05	46.61	46.34	45.55	45.17	45.38	45.43	45.73
	5	44.34	45.11	45.85	45.07	43.58	43.03	43.01	42.98	43.05
MEA	/и	49.34	49.25	49.74	50.40	50.26	50.41	50.21	50.25	50.31
STAND DEVIA	ARD	4.20	2.48	2.62	3.02	3.83	3.84	3.79	3.80	3.70
NUMB OF SCH	SER OOLS	1192	1192	1192	1192	1213	1213	1213	1213	1213



III. TOWNS GRADE 4

			LES ASSUM			ACHIEVEMENT ("OUTPUTS")					
		SES	ATTITUD	ES AND ASP	IRATIONS			BASIC SKILL	s		
		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT	
ĺ	95	54.59	52.72	53.30	55.17	56.28	56.11	56.44	56.79	56.42	
	90	53.12	51.65	52.32	54.12	54.74	55.17	55.29	55.57	55.02	
	85	52.10	51.26	51.70	53.48	53.96	54.52	54.44	54.79	54.37	
	80	51.50	50.92	51.20	52.99	53.39	53.64	53.82	53.97	53.76	
	75	50.78	50.46	50.75	52.47	52.92	53.19	53.05	53.40	53.13	
	70	50.33	50.09	50.39	51.98	52.40	52.74	52.63	52.72	52.61	
	65	49.90	49.84	50.07	51.59	51.94	52.46	52.19	52.17	52.12	
NOIF	60	49.46	49.57	49.77	51,25	51.57	52.15	51.74	51.86	51.75	
TRIBL	55	49.07	49.29	49.47	50.98	51.25	51.73	51.28	51.40	51.43	
PERCENTILE DISTRIBUTION	50	48.73	48.97	49.19	50.69	5 0 .7 6	51.29	50.89	50.99	51.11	
CENTI	45	48.44	48.63	48.94	50.26	50.36	50.92	50.55	50.65	50.81	
PER	40	48.13	48.25	48.68	49.89	50.00	50.55	50.24	50.34	50.49	
	35	47.78	47.96	48.38	49.56	49.67	50.18	49.90	49.98	50.16	
	30	47.38	47.65	48.10	49.24	49.35	49.79	49.47	49.57	49.86	
	25	47.02	47.31	47.85	48.78	48.95	49.33	49.04	49.10	49.44	
	20	46.66	46.78	47.44	48.16	48.48	48.87	48.57	48.54	48.81	
	15	46.13	46.27	46.97	47.60	47.89	48.19	47.90	47.90	48.14	
	10	45.57	45.63	46.43	46.78	47.21	47.54	47.26	47.22	47.51	
	5	44.47	44.56	45.79	45.07	46.28	46.41	45.94	46.33	46.35	
WE	AN	49.10	48.77	49.34	50.48	50.95	51.26	51.03	51.22	51.18	
STAND	ARD TION	3.08	2.53	2.29	3.03	2.95	3.04	3.17	3.27	3.00	
NUME OF SCH		365	365	365	365	373	373	373	373	373	



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u.	RA	١D	┗.	٠,

		GRADE 4		_	· · · · · · · · · · · · · · · · · · ·	III. TOWI							
	1		BLES ASSUM				ACHIEVE	MENT ("OU	TPUTS'')				
		SES	ATTITUE	ES AND ASP	IRATIONS		1	BASIC SKILL	5				
		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT			
	95	53.30	52.81	53.31	55.02	54.96	55.52	55.22	55.61	54.91			
	90	52.80	51.64	52.28	53.91	53.86	54.28	54.20	54.63	54.07			
	85	51.90	51.04	51.75	53.25	53.33	53.54	53.21	53.75	53.33			
	80	51.33	50.53	51.08	52.93	52.72	53.19	52.74	53.22	52.85			
	75	50.59	50.11	50.54	52.49	52.13	52.73	52.38	52.51	52.39			
·	70	50.15	49.82	50.20	51.98	51.78	52.43	52.03	52.09	52.02			
	65	49.80	49.57	49.96	51.59	51.49	52.09	51.66	51.79	51.72			
NOIT	60	49.37	49.34	49.71	51.26	51.17	51.70	51.26	51.26	51.46			
TRIBL	55	49.02	49.03	49.42	50.92	50.68	51.38	50.88	50.96	51.19			
LE DIS	50	48.72	48.67	* 49:16	\$50.55	50.3 3	51.06	50.55	50.66	50.88			
PERCENTILE DISTRIBUTION	45	48.47	48.32	48.93	50.15	50.05	50.72	50.25	50.38	50.55			
PER	40	48.21	48.05	48.70	49.78	49.79	50.34	49.96	50.03	50.22			
	35	47.88	47.80	48.43	49.47	49.52	49.98	49.60	49.64	49.94			
}	30	47.52	47.47	48.12	49.15	49.25	49.61	49.18	49.28	49.62			
	25	47.11	47.09	47.74	48.77	48.63	49.21	48.89	48.86	49.24			
	20	46.63	46.66	47.27	48.18	48.22	48.86	48.40	48.32	48.72			
	15	46.12	46.29	46.79	47.64	47.71	48.22	47.91	47.87	48.20			
	10	45.61	45.72	46.28	46.73	47.28	47.81	47.38	47.09	47.63			
	5	44.81	44.78	45.70	45.29	46.53	46.88	45.95	46.14	46.42			
MEA	W	48.91	48.61	49.26	50.45	50.55	50.99	50.60	50.71	50.78			
STAND DEVIA		2.62	2.48	2.25	2.92	2.68	2.77	2.81	2.89	2.64			
NUME OF SCH	SER OOLS	227	227	227	227	227	227	227	227	227			



SCHOOL NORMS

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	ΚА			•

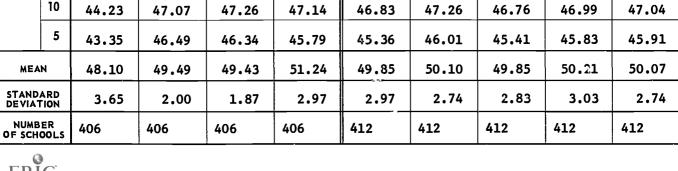
MICHIGAN

			BLES ASSUM CHIEVEMEN				ACHIEVE	MENT ("OL	ITPUTS")	
		SES	ATTITUE	ES AND ASP	IRATIONS			BASIC SKILL	S	
		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT
	95	56.67	53.14	53.21	55.48	55.40	55.24	55.28	56.08	55.45
!	90	53.70	52.45	52.28	54.57	53.91	53.82	54.23	54.65	54.07
[85	52.26	51.92	51.70	53.90	53.06	53.16	53.48	53.64	53.30
	80	51.18	51.54	51.35	53.38	52.52	52.65	52.99	52.97	52.76
	75	50.38	51.21	51.04	52.95	52.11	52.22	52.47	52.45	52.28
	70	49.74	50.94	50.73	52.58	51.70	51.79	52.03	52.02	51.89
	65	49.23	50.67	50.46	52.24	51.23	51.48	51.64	51.63	51.55
NOIT	60	48.64	50.41	50.20	51.81	50.91	51.16	51.19	51.31	51.22
TRIBU	55	48.18	50.16	49.98	51.35	50.57	50.79	50.86	50.92	50.89
PERCENTILE DISTRIBUTION	50	47.79	49.92	49.76	51.02	50.24	50.41	50.49	50.52	50.53
E K H	45	47.37	49.68	49.53	50.72	49.85	50.05	50.09	50.14	50.16
PER	40	46.96	49.45	49.30	50.30	49.51	49.71	49.70	49.79	49.83
	35	46.47	49.21	49.03	49.88	49.18	49.34	49.34	49.42	49.46
ļ	30	45.97	48.93	48.76	49.45	48.76	48.98	48.89	49.03	49.08
	25	45.49	48.63	48.46	48.86	48.28	48.57	48.45	48.56	48.65
	20	45.00	48.29	48.09	48.02	47.54	47.98	47.89	47.93	48.02
	15	44.47	47.83	47.63	46.95	46.76	47.26	47.10	46.92	47.19
	10	43,82	47.21	47.24	45.82	45.31	45.87	45.78	45.03	45.69
	5	42.70	46.46	46.12	43.94	42.13	43.52	43.22	41.79	43.07
MEA	M	48.42	49.90	49.74	50.62	49.88	50.13	50.20	50.22	50,20
STAND	ARD	4.29	2.11	2.16	3.52	3.69	3.37	3.54	3.90	3.49
NUME OF SCH	BER	892	892	892	892	909	9.09	909	909	909



SCHOOL NORMS

		GRADE 7								REGION 2
			BLES ASSUM CHIEVEMEN				ACHIEVE	MENT ("OU	TPUTS")	
		SES	ATTITUE	ES AND ASP	IRATIONS			BASIC SKILL	s	
	,	SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT
	95	55.53	52.72	52.42	55.37	54.55	54.00	53.89	55.17	54.20
	90	52.56	51.76	51.52	54.59	53.01	53.21	53.02	53.57	53.22
	85	50.99	51.38	51.12	54.06	52.34	52.56	52.43	52.82	52.62
	80	50.34	51.04	50.81	53.60	51.92	52.07	51.98	52.41	52.04
	75	49.76	50.72	50.54	53.20	51.48	51.67	51.59	52.01	51.63
	70	49.21	50.43	50.29	52.90	51.09	51.43	51.21	51.61	51.32
	65	48.73	50.16	50.05	52.59	50.78	51.17	50.96	51.25	51.05
HON	60	48.30	49.90	49.82	52.26	50.50	50.86	50.70	50.88	50.79
PERCENTILE DISTRIBUTION	55	47.96	49.66	49.60	51.91	50.23	50.50	50.35	50.55	50.48
LE DIS	50	47.62	49.44	49.40	51.57	49.94	50.17	49.98	50.25	50.18
CENTI	45	47.29	49.22	49.20	51.25	49.66	49.92	49.65	49.98	49.93
PER	40	46.90	48.98	49.00	50.94	49.42	49.66	49.40	49.70	49.66
	35	46.48	48.74	48.81	50.53	49.16	49.34	49.09	49.35	49.34
	30	46.11	48.50	48.58	50.05	48.82	49.06	48.71	49.03	49.05
	25	45.79	48.26	48.34	49.62	48.50	48.79	48.38	48.71	48.76
	20	45.33	47.96	47.99	49.11	48.13	48.35	47.99	48.28	48.30



47.56

47.48

47.80

47.79

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48.46

47.61

47.59



44.84

15

			BLES ASSUM			ACHIEVEMENT ("OUTPUTS")					
		SES	ATTITUE	ES AND ASP	IRATIONS			BASIC SKILL	s		
		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHDOL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT	
	95	52.74	52.24	52.87	54.99	54.98	54.06	54.71	55.21	54.61	
	90	51.84	51.53	51.49	54.24	53.67	53.44	53.82	54.09	53.72	
	85	51.10	51.14	50.95	53.74	52.80	53.11	53.23	53.60	53.22	
	80	50.66	50.84	50.55	53.31	52.40	52.85	52.92	53.11	52.88	
:	75	50.22	50.48	50.22	53.03	51.94	52.59	52.55	52.76	52.54	
	70	49.61	50.16	50.06	52.78	51.51	52.34	52.18	52.48	52.21	
	65	49.24	49.93	49.90	52.45	51.19	51.96	51.94	52.19	51.93	
NOIF	60	48.98	49.71	49.74	52.08	51.01	51.64	51.70	51.85	51.66	
TRIBU	55	48.73	49.56	49.59	51.67	50.83	51.42	51.47	51.60	51.40	
PERCENTILE DISTRIBUTION	50	48.43	49.41	49.44	51.33	50.67	51.16	51.23	51.40	51.17	
CENTI	45	48.14	49.26	49.29	51.09	50.53	50.77	50.95	51.17	50.96	
PER	40	47.89	49.10	49.06	50.87	50.39	50.46	50.62	50.86	50.76	
	35	47.62	48.94	48.81	50.63	50.25	50.19	50.21	50.53	50.45	
	30	47.32	48.78	48.58	50.35	50.03	50.01	49.95	50.18	50.13	
	25	46.95	48.35	48.37	49.94	49.81	49.83	49.70	49.80	49.79	
	20	46.47	47.98	48.11	49.43	49.55	49.54	49.44	49.50	49.52	
	15	45.87	47.60	47.81	49.06	49.27	49.17	49.14	49.19	49.27	
	10	45.44	47.06	47.40	48.76	48.77	48.87	48.71	48.58	48.93	
Ĺ	5	44.88	46.15	46.85	47.27	47.79	48.27	48.32	47.77	48.27	
MEA	N.	48.57	49.39	49.44	51.38	50.96	51.12	51.21	51.37	51.24	
STAND DEVIA	ARD TION	2.73	1.76	1.70	2.30	2.18	1.93	2.05	2.31	1.98	
NUME OF SCH	BER	121	121	121	121	123	123	123	123	123	



GRADE 7 SCHOOL NOR

			BLES ASSUM				ACHIEVE	MENT ("OL	TPUTS'')	
		SES	ATTITUE	ES AND ASP	IRATIONS			BASIC SKILL	S	
		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT
	95	51.99	51.97	52.86	54.82	53.97	53.32	53.12	53.86	53.36
	90	51.04	51.36	51.40	54.04	52.99	52.94	52.82	53.14	52.94
	85	50.70	51.03	51.03	53.64	52.54	52.54	52.42	52.79	52.47
	80	50.40	50.73	50.73	53.18	51.95	52.10	52.13	52.52	52.03
	75	50.03	50.44	50.44	52.95	51.41	51.72	51.93	52.27	51.71
	70	49.53	50.18	50.20	52.71	51.11	51.57	51.72	51.92	51.54
:	65	49.16	50.01	50.08	52.27	50.88	51.42	51.43	51.67	51.36
NOL	60	48.98	49.83	49.95	51.82	50.70	51.27	51.18	51.50	51.20
PERCENTILE DISTRIBUTION	55	48.80	49.66	49.82	51.54	50.57	51.00	51.00	51.34	51.06
LE DIS	50	48.54	49.50	49.69	51.29	50.45	50.72	50.82	51.14	50.92
CENTI	45	48.24	49.34	49.56	51.06	50.32	50.50	50.41	50.89	50.79
PER	40	47.89	49.16	49.42	50.84	50.17	50.27	50.11	50.62	50.59
	35	47.62	48.96	49.28	50.48	49.99	50.13	49.91	50.32	50.37
	30	47.39	48.77	49.06	50.04	49.82	49.99	49.71	50.06	50.04
	25	47.09	48.43	48,80	49.59	49.63	49.86	49.54	49.80	49.68
	20	46.65	48.07	48.52	49.20	49.43	49.67	49.36	49.55	49.48
	15	46.19	47.69	48.19	48.98	49.21	49.32	49.12	49.30	49.29
	10	45.66	47.14	47.64	48.76	48.86	49.01	48.76	48.64	49.04
1	5	45.30	46.64	47.18	47.01	48.14	48.68	48.32	48.14	48.79
MEA	'N	48.46	49.42	49.67	51.17	50.64	50.86	50.74	50.99	50.88
STAND DEVIA	ARD TION	2.11	1.72	1.48	2.32	1.73	1.40	1.52	1.77	1.42
NUMB OF SCH	ER	71	71	71	71	71	71	71	71	71



GRADE 4

GRADE 4								'
				VARIABLES /	ASSUMED TO	INFLUENCE #	ACHIEVEME	NT ("IN!
SES	ATTITUD	ES AND ASPIRA	ATIONS	Sí	CHOOL HUMAN	RESOURCES	·	
SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	SELF	C ATTITUDE TOWARD SCHOOL	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERIENCE	PERCENTAGE OF TEACHERS WITH MASTERS OR ABOVE	AVERAGE	STATE EQUAL:7 VALUAT! PER PUF
95 54.00	52.06	52.92	54.47	29.45	14.67	37.46	9864	2778 3
90 52.18	51.49	51.84	53.55	28.09	13.58	33.16	9478	21962
85 51.28	51.11	51.29	52.97	27.01	12.81	29.25	9173	19441
80 50.45	50.75	50.88	52.65	26.56	12.19	25.94	8949	17679
75 49.87	50.42	50.60	52.40	26.11	11.66	24.01	8761	1630 5
70 49.36	50.13	50.37	52.11	25.66	11.24	22.26	8646	15124
65 48.94	49.89	50.16	51.77	25.22	10.86	20.22	8530	14217
60 48.59	49.66	49.97	51.57	24.83	10.49	18.76	8415	13310
55 48.30	49.45	49.78	51.38	24.49	10.10	17.62	8311	12444
50 48.03	49.25	49.55	51.15	24.16	9.71	16.48	8209	11925
45 47.76	49.00	49.30	50.87	23.82	9.33	15.38	8106	11406
40 47.46	48.76	49.08	50.60	23.48	8.98	14.29	8004	10887
35 47.16	48.44	48.85	50.36	23.15	8.62	13.15	7890	10367
30 46.87	7 48.14	48.60	50.10	22.72	8.25	11.92	7776	9848
25 46.53	47.86	48.32	49.84	22.23	7.85	10.68	7662	9277
20 46.14	47.49	48.02	49.44	21.74	7.50	8.67	7503	8600
15 45.70	47.00	47.72	48.94	21.25	6.95	6.30	7291	7923
10 45.25	6 46.25	47.25	48.43	20.38	6.36	2.46	6896	7246
5 44.41	45.28	46.24	47.41	19.14	5.63	0.13	5957	6568
48.47	7 48.99	49.47	51.06	24.26	10.04	17.60	8146.80	13947.
3.21	2.23	2.17	2.10	3.66	3.50	11.07	1257.30	7882.
S 579	579	579	579	585	585	585	583	623
9 8 8 7 7 6 6 5 5 4 4 3 3 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SES SOCIO ECONOMIC STATUS 95 54.00 90 52.18 85 51.28 80 50.45 75 49.87 70 49.36 65 48.94 60 48.59 65 48.30 60 48.69 47.76 40 47.46 85 47.76 40 47.46 85 47.16 90 45.25 5 44.41 48.47 D 3.21	SES ATTITUD SOCIO ECONOMIC STATUS 95 54.00 52.06 90 52.18 51.49 85 51.28 51.11 80 50.45 50.75 75 49.87 50.42 70 49.36 50.13 65 48.94 49.89 60 48.59 49.66 65 48.30 49.45 60 48.59 49.66 65 48.03 49.25 45 47.76 49.00 40 47.46 48.76 85 47.16 48.44 80 46.87 48.14 80 46.87 48.14 81 46.53 47.86 80 46.14 47.49 5 45.70 47.00 0 45.25 46.25 5 44.41 45.28 48.47 48.99 D 3.21 2.23	SES ATTITUDES AND ASPIRA SOCIO ECONOMIC STATUS SELF PERCEPTION 95	SES	SES	SES	SES	SES ATTITUDES AND ASPIRATIONS SCHOOL HUMAN RESOURCES



TRICT NORMS

MICHIGAN

("INPUT	s'')				ACHIEVEMENT ("OUTPUTS")					
	SCHO	OOL FINANCI	AL RESOURCES				DASIC			
STATE QUALIZED ALUATION ER PUPIL	LCCAL REVENUE PER PUPIL	STATE SCHOOL AID PER PUPIL	K-12 INSTRUCTIONAL EXPENSE PER PUPIL	TOTAL CURRENT OPERATING EXPENSE PER PUPIL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT	
7783	668	402	595	795	54.99	55.24	55.78	55.69	55.21	
1962	517	384	539	733	53.85	54.24	54.50	54.35	54.20	
9441	450	369	508	679	53.22	53.62	53.71	53.58	53.53	
7679	409	357	486	651	52.72	53.09	53.25	52.97	52.99	
6305	380	346	468	629	52.24	52.57	52.70	52,50	52.57	
5124	356	336	452	608	51.90	52.21	52.29	52.10	52.16	
4217	334	325	438	596	51.57	51.93	51.90	51.73	51.81	
3310	315	315	429	583	51.25	51.67	51.55	51.46	51.53	
2444	299	306	419	571	50.90	51.44	51.21	51.20	51.27	
1925	283	298	410	560	50.60	51.20	50.83	50.93	50.95	
1406	269	289	400	549	50.34	50.89	50.51	50.60	50.64	
0887	255	281	393	538	50.05	50.54	50.20	50.18	50.36	
0367	241	274	385	528	49.75	50.17	49.92	49.83	50.07	
9848	227	267	377	518	49.37	49.84	49.63	49.44	49.77	
9 277	212	260	370	507	48.90	49.48	49.31	48.96	49.39	
₿ 600	197	251	362	497	48.47	49.03	48.92	48.39	48.94	
7923	182	237	341	482	48.01	48.46	48.45	47.82	48.40	
7246	160	219	311	454	47.37	47.59	47.59	47.09	47.62	
6568	133	186	260	364	46.38	46.18	45.98	46.10	46.44	
3 947.28	320.98	300.16	419.84	575.52	50.66	51.01	50.95	50.81	50.94	
7882.42	165.03	72.20	96.53	134.03	2.73	2.68	2.79	2.97	2.66	
623	623	620	623	623	585	585	585	585	585	



G	R	A	D	E	4
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ſ	GRADE 4				VARIABLES A	COUNTY TO		CHIEVENE	SIT (COMPU
	SES	ATTITUD	ES AND ASPIRA	TIONS	Π			CHIEVEME	NI ("INPO
	SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERIENCE	PERCENTAGE OF TEACHERS WITH MASTERS OR ABOVE	AVERAGE TEACHER SAL ARY	STATE EQUALIZED VALUATION PER PUP!
95	53.44	51.71	53.07	54.15	29.55	13.64	34.63	9376	22419
90	51.77	51.15	51.85	53.23	28.22	12.54	28.76	9040	18983
85	50.63	50.80	51.12	52.89	27.24	11.96	26.23	8817	17279
80	50.11	50.38	50.63	52.59	26.69	11.44	24.38	8691	15817
75	49.65	50.07	50.41	52.31	26.29	11.11	22.76	8574	14845
70	49.27	49.81	50.21	51.98	25.88	10.77	20.98	8456	14009
65	48.95	49.59	50.05	51.69	25.47	10.44	19.32	8359	13174
50	48.65	49.38	49.88	51.52	25.06	10.11	18.34	8282	12411
55	48.38	49.18	49.71	51.35	24.73	9.79	17.36	8205	11949
50	48.10	48.98	49.45	51.14	24.41	9.45	16.38	8128	11487
45	47.82	48.78	49.21	50.88	24.09	9.09	15.42	8051	11025
40	47.55	48.54	49.02	50.64	23.77	8.72	14.46	7971	10563
35	47.28	48.28	48.83	50.44	23.45	8.37	13.49	7884	10101
30	47.03	48.00	48.61	50.24	23.13	8.04	12.37	7798	9639
25	46.79	47.71	48.35	49.99	22.72	7.70	11.25	7711	9092
20	46.44	47.40	48.07	49.73	22.25	7.33	9.79	7624	8507
15	46.02	46.95	47.78	49.29	21.78	6.91	7.65	7472	7922
10	45.55	46.32	47.27	48.65	21.31	6.47	5.07	7294	7337
5	44.88	45.52	46.45	47.73	20.24	5.79	0.98	6573	6752
	48.46	48.83	49.43	51.06	24.65	9.63	17.02	8086.93	12780.8
RD ON	2.86	2.01	2.17	1.90	3.45	3.05	9.54	937,28	6094.2
R CTS	317	317	317	317	314	314	314	312	3 51
	90 85 80 75 70 65 50 45 40 35 30 25 10 5 10 5 RRDN R	SOCIO ECONOMIC STATUS 95 53.44 90 51.77 85 50.63 80 50.11 75 49.65 70 49.27 65 48.95 60 48.65 55 48.38 50 48.10 45 47.82 40 47.55 35 47.28 30 47.03 25 46.79 20 46.44 15 46.02 10 45.55 5 44.88 48.46 RD 2.86	SOCIO ECONOMIC STATUS 95 53.44 51.71 90 51.77 51.15 85 50.63 50.80 80 50.11 50.38 75 49.65 50.07 70 49.27 49.81 65 48.95 49.59 60 48.65 49.38 55 48.38 49.18 50 48.10 48.98 45 47.82 48.78 40 47.55 48.54 35 47.28 48.28 30 47.03 48.00 25 46.79 47.71 20 46.44 47.40 15 46.02 46.95 10 45.55 46.32 5 44.88 45.52 48.46 48.83 RD 2.86 2.01	SOCIO ECONOMIC STATUS SOCIO ECONOMIC STATUS 95 53.44 51.71 53.07 90 51.77 51.15 51.85 85 50.63 50.80 51.12 80 50.11 50.38 50.63 75 49.65 50.07 50.41 70 49.27 49.81 50.21 65 48.95 49.59 50.05 60 48.65 49.38 49.88 55 48.38 49.18 49.71 50 48.10 48.98 49.45 45 47.82 48.78 49.21 40 47.55 48.54 49.02 35 47.28 48.28 48.83 30 47.03 48.00 48.61 25 46.79 47.71 48.35 20 46.44 47.40 48.07 15 46.02 46.95 47.78 10 45.55 46.32 47.27 5 44.88 45.52 46.45 48.46 48.83 49.43 RD 2.86 2.01 2.17	SOCIO CONOMIC STATUS SALP PERCEPTION SCHOOL	SES	SES	SES	SOCIO SOCIO SOCIO SOCIO SOCIO SOCIO STATUS SOCIO S



ISTRICT NORMS

REGION 2

STATE EQUALIZED REVENUE STATE SCHOOL AID PER PUPIL STATE SCHOOL AID SCHOOL AI		ACHIEVEMENT ("OUTPUTS")						(''INPUTS'')				
STATE COCAL STATE SCHOOL AID PER PUPIL STATE SCHOOL AID SCHOOL AID STATE SCHOOL AID S	BASIC	.s	BASIC SKILL			_	AL RESOURCES	OOL FINANCI	SCHO			
18983 442 378 504 650 53.25 53.60 53.49 53.35 53 17279 393 366 477 624 52.52 52.87 52.81 52.72 52 15817 363 355 459 604 52.09 52.42 52.36 52.23 52 14845 343 344 440 591 51.79 52.09 51.99 51.76 51 14009 323 335 431 579 51.49 51.81 51.64 51.54 51 13174 306 326 422 567 51.16 51.60 51.26 51.32 51 12411 290 317 413 557 50.78 51.40 50.95 51.10 51 11949 274 308 405 547 50.56 51.18 50.68 50.88 50 11025 249 290 391 528 50.10 50.59 50.24 50.20 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49	LLS OSITE	SKILL COMPOS ACHIEVE	MATHEMATICS	1	READING	VOCABULARY	OPERATING EXPENSE	INSTRUCTIONAL EXPENSE	SCHOOL AID	REVENUE	EQUALIZED VALUATION	
17279 393 366 477 624 52.52 52.87 52.81 52.72 52 15817 363 355 459 604 52.09 52.42 52.36 52.23 52 14845 343 344 440 591 51.79 52.09 51.99 51.76 51 14009 323 335 431 579 51.49 51.81 51.64 51.54 51 13174 306 326 422 567 51.16 51.60 51.26 51.32 51 12411 290 317 41.3 557 50.78 51.40 50.95 51.10 51 11949 274 308 405 547 50.56 51.18 50.68 50.88 50 11487 261 299 397 537 50.36 50.89 50.46 50.59 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49	.14	54.1	54.25	54.15	54.32	54.18	724	557	395	529	2 241 9	
15817 363 355 459 604 52.09 52.42 52.36 52.23 52 14845 343 344 440 591 51.79 52.09 51.99 51.76 51 14009 323 335 431 579 51.49 51.81 51.64 51.54 51 13174 306 326 422 567 51.16 51.60 51.26 51.32 51 12411 290 317 433 557 50.78 51.40 50.95 51.10 51 11949 274 308 405 547 50.56 51.18 50.68 50.88 50 11487 261 299 397 537 50.36 50.89 50.46 50.59 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	. 26	53.2	53.35	53.49	53.60	53.25	650	504	378	442	18983	
14845 343 344 440 591 51.79 52.09 51.99 51.76 51 14009 323 335 431 579 51.49 51.81 51.64 51.54 51 13174 306 326 422 567 51.16 51.60 51.26 51.32 51 12411 290 317 43.3 557 50.78 51.40 50.95 51.10 51 11949 274 308 405 547 50.56 51.18 50.68 50.88 50 11487 261 299 397 537 50.36 50.89 50.46 50.59 50 11025 249 290 391 528 50.10 50.59 50.24 50.20 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.72	52.7	52.72	52.81	52.87	52.52	624	477	366	393	17279	
14009 323 335 431 579 51.49 51.81 51.64 51.54 51 13174 306 326 422 567 51.16 51.60 51.26 51.32 51 12411 290 317 413 557 50.78 51.40 50.95 51.10 51 11949 274 308 405 547 50.56 51.18 50.68 50.88 50 11487 261 299 397 537 50.36 50.89 50.46 50.59 50 11025 249 290 391 528 50.10 50.59 50.24 50.20 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.23	52.2	52.23	52.36	52.42	52.09	604	459	355	363	15817	
13174 306 326 422 567 51.16 51.60 51.26 51.32 51 12411 290 317 433 557 50.78 51.40 50.95 51.10 51 11949 274 308 405 547 50.56 51.18 50.68 50.88 50 11487 261 299 397 537 50.36 50.89 50.46 50.59 50 11025 249 290 391 528 50.10 50.59 50.24 50.20 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.85	51.8	51.76	51.99	52.09	51.79	591	440	344	343	14845	
12411 290 317 43.3 557 50.78 51.40 50.95 51.10 51 11949 274 308 405 547 50.56 51.18 50.68 50.88 50 11487 261 299 397 537 50.36 50.89 50.46 50.59 50 11025 249 290 391 528 50.10 50.59 50.24 50.20 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.60	51.6	51.54	51.64	51.81	51.49	579	431	335	323	14009	
11949 274 308 405 547 50.56 51.18 50.68 50.88 50 11487 261 299 397 537 50.36 50.89 50.46 50.59 50 11025 249 290 391 528 50.10 50.59 50.24 50.20 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.40	51.4	51.32	51.26	51.60	51.16	567	422	326	306	13174	
11487 261 299 397 537 50.36 50.89 50.46 50.59 50 11025 249 290 391 528 50.10 50.59 50.24 50.20 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.17	51.1	51.10	50.95	51.40	50.78	557	41.3	317	290	12411	
11025 249 290 391 528 50.10 50.59 50.24 50.20 50 10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.90	50.9	50.88	50.68	51.18	50.56	547	405	308	274	1 19 49	
10563 237 283 385 520 49.78 50.30 49.98 49.91 50 10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.63	50.6	50.59	50.46	50.89	50.36	537	397	299	261	11487	
10101 225 276 379 512 49.48 49.98 49.70 49.59 49 9639 212 270 373 504 49.16 49.66 49.40 49.24 49	. 37	50.3	50.20	50.24	50.59	50.10	528	391	290	249	11025	
9639 212 270 373 504 49.16 49.66 49.40 49.24 49	.12	50.1	49.91	49.98	50.30	49.78	520	385	283	237	10563	
	.88	49.8	49.59	49.70	49.98	49.48	512	379	276	225	10101	
9092 200 264 367 496 48.74 49.35 49.09 48.69 49	.56	49.5	49.24	49.40	49.66	49.16	504	373	270 ⁻	212	9639	
	.15	49.1	48.69	49.09	49.35	48.74	496	367	264	200	9092	
8507 187 258 360 483 48.40 48.92 48.78 48.24 48	.79	48.7	48.24	48.78	48.92	48.40	483	360	258	187	8507	
7922 175 245 335 459 47.98 48.45 48.36 47.80 48	.28	48.2	47.80	48.36	48.45	47.98	459	335	245	175	7922	
7337 153 228 300 405 47.44 47.79 47.49 47.08 47	.66	47.6	47.08	47.49	47.79	47.44	405	300	228	153	7337	
6752 131 199 251 321 46.64 46.58 46.35 46.10 46	.82	46.8	46.10	46.35	46.58	46.64	321	251	199	131	6752	
12780.85 286.21 300.39 402.62 538.14 50.35 50.71 50.44 50.32 50	.51	50.5	50.32	50.44	50.71	50.35	538.14	402.62	300.39	286.21	12780.85	
6094.26 121.43 62.21 81.90 106.39 2.35 2.31 2.38 2.52 2	.27	2.2	2.52	2.38	2.31	2.35	106.39	81.90	62.21	121.43	6094.26	
351 351 350 351 351 319 319 319 319 319		319	319	319	319	319	351	351	350	351	3 51	



		GRADE 4								
			-			VARIABLES /	ASSUMED TO	INFLUENCE A	CHIEVEME	NT ("INPU
		SES	ATTITUD	DES AND ASPIRA	TIONS	Sc	CHOOL HUMAN	RESOURCES	 -	
		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	SELF	C ATTITUDE TOWARD SCHOOL	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERIENCE	PERCENTAGE OF TEACHERS WITH MASTERS OR ABOVE	AVERAGE TEACHER	STATE EQUALIZED VALUATION PER PUPIT.
	95	53.15	51.13	51.83	53.95	29.92	14.25	37.31	9500	21350
	90	52.07	50.63	50.88	53.01	28.62	13.67	33.86	9154	18412
	85	51.53	50.21	50.60	52.43	27.81	13.08	31.61	8992	17485
	80	50.45	49.89	50.38	51.93	27.00	12.50	27.64	8831	16559
	75	49.85	49.69	50.18	51.66	26.70	12.10	25.45	8743	15632
	70	49.54	49.58	50.01	51.51	26.40	11.69	24.40	8673	14825
	65	49.28	49.47	49.84	51.36	26.10	11.34	23.35	8603	14038
NOITO	60	49.06	49.36	49.67	51.16	25.80	11.03	22.23	8533	13250
STRIBI	55	48.84	49.25	49.51	50.87	25.50	10.72	20.80	8463	12483
PERCENTILE DISTRIBUTION	50	48.63	49.07	49.34	50.64	25.20	10.42	19.40	8391	12133
CENT	45	48.43	48.89	49.19	50.46	24.88	10.13	18.35	8300	11783
P ER	40	48.23	48.69	49.06	50.27	24.52	9.83	17.30	8209	11433
	35	48.00	48.45	48.92	50.06	24.16	9.54	16.35	8117	11083
ļ.	30	47.76	48.22	48.78	49.84	23.79	9.24	15.72	8026	10733
	25	47.44	48.00	48,50	49.50	23.43	8.93	15.09	7937	10383
	20	47.15	47.78	48.20	49.11	23.07	8.62	14.46	7850	10033
	15	46.91	47.31	47.98	48.79	22.50	8.04	13.83	7762	9683
1	10	46.59	46.79	47.77	48.10	21.88	7.29	12.75	7675	8875
	5	45.95	45.80	47.35	47.43	21.26	6.54	11.18	7525	7562
MEA	AN	48.98	48.81	49.34	50.66	25.18	10.46	21.34	8376.86	13245.3
STAND, DEVIAT	ARD TION	2.23	1.61	1.28	1.82	2.50	2.37	8.24	729.27	4317.5
NUMB OF DISTE	ER RICTS	104	104	104	104	105	105	105	105	105
						ــــــــــــــــــــــــــــــــــــــ			<u></u>	<u>a</u>



STRICT NORMS

III. TOWNS

				_					111. 10 1714
T ("INPUT	S'')					ACHIE	/EMENT ("O	UTPUTS'')	
	SCH	OOL FINANCI	AL RESOURCES				BASIC		
STATE EQUALIZED VALUATION PER PUPIL	LOCAL REVENUE PER PUPIL	STATE SCHOOL AID PER PUPIL	K-12 INSTRUCTIONAL EXPENSE PER PUPIL	TOTAL CURRENT OPERATING EXPENSE PER PUPIL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	SKILLS COMPOSITE ACHIEVEMENT
21350	423	371	510	687	54.44	55.38	55.38	56.38	55.44
1.8412	391	355	487	645	53.80	54.56	54.61	55.12	54.80
1.7485	368	342	472	625	53.51	53.91	54.32	54.28	53.94
1.6559	354	333	460	608	53.25	53.46	53.50	53.50	53.38
1.5632	340	323	448	598	52.81	53.02	53.01	53.05	52.98
14825	326	315	438	588	52.38	52.63	52.72	52.71	52.60
1.4038	315	309	433	578	52.04	52.36	52.39	52.34	52.19
1 325 0	304	304	428	569	51.75	52.16	52.00	51.92	52.00
1.2483	293	299	422	561	51.53	52.01	51.66	51.61	51.81
12133	282	294	417	554	51.31	51.85	51.46	51.40	51.62
1783	272	289	412	547	51.06	51.68	51.26	51.15	51.41
1433	263	284	406	540	50.80	51.46	50.94	50.86	51.18
1083	254	279	401	532	50,60	51.23	50.63	50.34	50.80
1.0 733	245	273	394	525	50.41	50.79	50.33	50.00	50.47
.0383	236	268	388	517	50.16	50.35	50.04	49.68	50.15
0033	227	262	381	510	49.50	49.75	49.75	49.13	49.86
9683	211	257	375	502	48.67	49.38	49.21	48.52	49 .21
8875	193	244	368	495	48.34	48.90	48.50	48.00	48.44
7562	176	229	362	480	47.88	47.79	47.46	47.13	47.53
13245.34	293.74	298.63	421.06	564.94	51.30	51.69	51.50	51.48	51.57
4317.55	80.17	44.74	43.25	58.98	2.12	2.19	2.32	2.66	2.26
105	105	105	105	105	105	105	105	105	105

DISTRICT NOR

G	R	A	D	Ε	7
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			VARIABLES ASSUMED TO INFLUENCE ACHIEVEMENT ("INPUTS"										
		SES	ATTITUD	ES AND ASPIRA	TIONS	St	CHOOL HUMAN	RESOURCES					
·		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERIENCE	PERCENTAGE OF TEACHERS WITH MASTERS OR ABOVE	AVERAGE TEACHER SALARY	STATE EQUALIZED VALUATION PER PUPIL	P		
	95	54.74	52.62	52.71	55.87	29.06	14.34	37.66	9877	26967			
	90	52.24	51.69	51.81	54.89	27.99	13.35	33.43	9496	21604			
	85	51.15	51.29	51.30	54.35	26.98	12.62	29.56	9193	19031			
	80	50.31	50.95	50.91	53.88	26.54	12.06	26.32	8975	174 52			
	75	49.58	50.65	50.60	53.48	26.11	11.54	24.26	8778	16127			
	70	49.04	50.39	50.35	53.14	25.67	11.16	22.59	8666	15037			
	65	48.53	50.14	50.12	52.83	25.23	10.80	20.63	8554	14157			
NOIT	60	48.11	49.91	49.89	52.55	24.85	10.43	19.02	8442	13278			
STRIBL	5 5	47.78	49.69	49.68	52.28	24.51	10.05	17.92	8337	12440			
PERCENTILE DISTRIBUTION	50	47.44	49.49	49.48	51.93	24.18	9.67	16.81	8237	11918			
CENTI	45	47.08	49.28	49.28	51.57	23.85	9.31	15.74	8137	11395			
PER	40	46.69	49.06	49.02	51.22	23.52	8.96	14.67	8037	10873			
	35	46.22	48.83	48.74	50.87	23.18	8.61	13.61	7928	10351			
	30	45.87	48.56	48.50	50.49	22.78	8.25	12.42	7815	9828			
	25	45.43	48.25	48.26	50.09	22.29	7.88	11.22	7702	9252			
	20	44.99	47.87	47.80	49.66	21.80	7.52	9.67	7580	8584			
	15	44.52	47.46	47.40	49.25	21.31	6.99	7.59	7374	7917			
	10	43.90	46.94	46.81	48.19	20.54	6.44	5.03	7112	7249			
	5	42.86	46.15	45.75	46.70	19.25	5.69	0.74	6189	6581			
MEA	'N	47.87	49.42	49.40	51.71	24.24	9.89	18.12	8198.29	13730.32			
STAND. DEVIAT	ARD FION	3.67	2.05	2.13	2.74	3.12	2.97	10.81	1138.05	7290.96			
NUMB OF DIST	ER RICTS	561	561	561	561	568	568	568	566	592			



MICHIGAN

ד (ייואפעד	S'')					ACHIE\	/EMENT ("O	UTPUTS'')	_
	SCH	DOL FINANCI	AL RESOURCES				BASIC SAILL	_S	BASIC
STATE QUALIZED (AL JATION PER PUPIL	LOCAL REVENUE PER PUPIL	STATE SCHOOL AID PER PUPIL	K-12 INSTRUCTIONAL EXPENSE PER PUPIL	TOTAL CÜRRENT OPERATING EXPENSE PER PUPIL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT
26 96 7	634	402	596	787	54.87	54.79	55.04	55.88	55.05
21604	504	384	541	730	53.52	53.72	54.00	54.42	53.94
.9031	442	370	510	678	52.81	53.10	53.38	53.68	53.25
L 74 52	406	358	489	651	52.32	52.53	52.90	53.10	52.73
.6127	378	347	472	630	51.95	52.12	52.29	52.62	52.20
L5 037	355	337	456	610	51.57	51.74	51.95	52.15	51.88
4157	332	327	441	598	51.16	51.50	51.61	51.75	51.57
.3278	314	317	432	586	50.85	51.26	51.22	51.47	51.27
.2440	299	308	423	574	50.55	50.92	50.94	51.18	50.99
.1918	284	299	414	563	50.27	50.59	50.64	50.87	50.72
1395	269	291	405	553	50.00	50.28	50.31	50.50	50.42
.0873	255	282	396	542	49.73	49.98	49.95	50.12	50.12
.0351	242	276	389	532	49.47	49.69	49.63	49.79	49.81
9 828	228	269	382	522	49.19	49.42	49.35	49.52	49.53
9 252	213	262	374	512	48.89	49.15	49.01	49.25	49.24
8584	197	255	367	503	48.51	48.86	48.63	48.90	48.92
7 917	182	240	357	493	47.97	48.52	48.26	48.44	48.51
7 249	159	225	332	469	47.24	47.91	47.49	47.85	47.89
6 581	132	194	286	415	46.21	46.58	46.52	46.57	46.83
3730.32	315.58	302.42	425.31	578.98	50.39	50.68	50.69	50.97	50.79
7290.96	148.85	67.37	88.91	113.23	2.62	2.49	2.67	2.88	2.55
592	592	592	592	592	566	566	566	566	566
0					<u>. </u>	<u> </u>		_	



GRADE 7

		GRADE /									_
		SES	ATTITION	ES AND ASPIRA	TIONS	<u> </u>	ASSUMED TO	DESCUENCE A	CHIEVEME	NT (''!אפעז' 	S'
		SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERIENCE	PERCENTAGE OF TEACHERS WITH MASTERS OR ABOVE	AVERAGE TEACHER SALARY	STATE EQUALIZED VALUATION PER PUPIL	1, 1,
_	95	53.65	52.03	52,21	55.58	29.27	13.27	34.76	9388	22400	
	90	51.40	51.49	51.43	54.80	28.14	12.36	29.01	9049	18837	
	85	50.43	51.10	51.02	54.31	27.17	11.81	26.37	8830	17231	
	80	49.81	50.72	50.67	53.91	26.67	11.36	24.51	8700	15809	
	75	49.22	50.48	50.42	53.51	26.27	11.03	22.91	85 85	14871	
	70	48.84	50.22	50.17	53.16	25.87	10.70	21.18	8469	14068	
	65	48,36	49.94	49.94	52.89	25.47	10.38	19.45	8370	13265	
NOIT	60	48.01	49.68	49.72	52.61	25.07	10.06	18.49	8294	12477	
TRIBU	55	47.71	49.49	49.55	52.32	24.74	9.74	17.52	8219	12003	
PERCENTILE DISTRIBUTION	50	47,44	49.30	49.37	52.02	24.42	9.41	16.56	8143	11529	П
CENTI	45	47.13	49.10	49.18	51.72	24.11	9.05	15.62	8068	11054	
PER	40	46.73	48.89	46.96	51.43	23.79	8.69	14.68	7991	10580	
	35	46.32	48.66	48.75	51.11	23.47	8.35	13.73	7906	10106	
	30	46.05	48.41	48.53	50.76	23.15	8.02	12.67	7821	9631	
	25	45.08	48.14	48.32	50.18	22.76	7.69	11.57	7736	9076	
	20	45.36	47.85	47.98	49.79	22.29	7.33	10.45	7651	8491	
	15	44.94	47.44	47.60	49.34	21.82	6.91	8.35	7530	7905	
	10	44.48	46.99	47.27	48.53	21.36	6.49	5.97	7355	7319	
	5	43.77	46.34	46.29	46.94	20.45	5.82	2.30	7030	6733	
MEA	N	47.80	49.30	49.36	51.79	24.57	9.44	17.35	8126.31	12720.30	
STAND DEVIAT	ARD FION	3.21	2.00	1.88	2.56	2.86	2.41	933	898.25	5746.71	
NUMB OF DISTI		308	308	308	308	308	308	308	306	332	



STRICT NORMS

REGION 2

					REC					
T ("INPUT	S'')				ACHIEVEMENT ("OUTPUTS")					
	SCHO	OOL FINANCI	AL RESOURCES			BASIC SKILLS			BASIC	
STATE EQUALIZED VALUATION PER PUPIL	LOCAL REVENUE PER PUPIL	STATE SCHOOL AID PER PUPIL	K-12 INSTRUCTIONAL EXPENSE PER PUPIL	TOTAL CURRENT OPERATING EXPENSE PER PUPIL	VOCABULARY	READING	ENGLISH EXPRESSION	MATHEMATICS	SKILLS COMPOSITE ACHIEVEMENT	
22400	529	396	562	732	53.70	53.79	53.59	54.60	53.80	
18837	441	380	507	655	52.75	52.96	52.89	53.50	53.11	
17231	393	368	480	628	52.16	52.36	52.27	52.84	52.36	
15809	364	357	463	607	51.64	51.90	51.88	52.34	51.88	
14871	343	347	445	595	51,24	51.60	51.49	51.80	51.52	
14068	323	338	434	583	50.92	51.37	51.16	51.48	51.21	
1 326 5	307	329	426	571	50.62	51.11	50.94	51.18	50.99	
12477	292	320	417	561	50.35	50.81	50.71	50.87	50.76	
12003	276	311	409	552	50.11	50.47	50.37	50.56	50 , 50	
11529	263	302	400	543	49.89	50.16	50.01	50.25	50.23	
11054	251	293	394	534	49.67	49.91	49.69	50.00	49.96	
10580	238	284	388	525	49.46	49.68	49.48	49.75	49.69	
10106	226	278	382	518	49.24	49.45	49.27	49.52	49.44	
9631	213	272	376	510	48.97	49.22	48.95	49.29	49.19	
9076	200	266	371	502	48.70	48.98	48.63	48.99	48.95	
8491	188	260	365	494	48.39	48.73	48.34	48.63	48.70	
7905	175	254	355	479	47.98	48.38	47.90	48.18	48.29	
7319	152	234	330	455	47.42	47.71	47.29	47.69	47.69	
6733	130	207	282	368	46.33	46.70	46.30	46.70	46.78	
12720.30	286.34	304.29	409.90	548.83	50.00	5Ó.28	50.04	50.43	50.27	
5746.71	119.28	58.72	76.41	97.30	2.25	2.17	2.28	2.46	2.17	
332	332	332	332	332	310	310	310	310	310	



GRA	DE	7
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	į	VARIABLES ASSUMED TO INFLUENCE ACHIEVEMENT ("INPUTS"										
		SES	ATTITUDES AND ASPIRATIONS			SCHOOL HUMAN RESOURCES						
	_	SOCIO ECONOMIC STATUS	A IMPORTANCE OF SCHOOL ACHIEVEMENT	B SELF PERCEPTION	C ATTITUDE TOWARD SCHOOL	PUPIL/TEACHER RATIO	AVERAGE YEARS TEACHING EXPERIENCE	PERCENTAGE OF TEACHERS WITH MASTERS OR ABOVE	AVERAGE TEACHER SALARY	STATE EQUALIZED VALUATION PER PUPIL	R P	
	95	52.70	51.74	52.20	54.57	29.92	14.25	37.31	9500	21350		
	90	51.82	51.36	51.07	54.07	28.62	13.67	33.86	9154	18412		
	85	51.19	50.99	50.61	53.49	27.81	13.08	31.61	8992	17485	· ·	
	80	50.68	50.65	50.32	53.12	27.00	12.50	27.64	8831	16559		
	75	50.25	50.36	50.14	52.89	26.70	12.10	25.45	8743	15632		
	70	49.52	50.13	49.99	52.61	26.40	11.69	24.40	8673	14825		
	65	49.19	49.93	49.85	52.29	26.10	11.34	23.35	8603	14038	•	
NOITO	60	48.98	49.73	49.70	51.92	25.80	11.03	22.23	8533	13250		
PERCENTILE DISTRIBUTION	55	48.76	49.57	49.54	51.59	25.50	10.72	20.80	8463	12483		
	50	48.47	49.41	49 .38	51.31	25.20	10.42	19.40	8391	12133		
	45	48.20	49.24	49.20	51.07	24.88	10.13	18.35	8300	11783		
PER	40	47.96	49.09	48.98	50.86	24.52	9.83	17.30	8209	11433		
	35	47.72	48.94	48.77	50.62	24.16	9.54	16.35	8117	11083		
	30	47.49	48.79	48.58	50.36	23.79	9.24	15.72	8026	10733		
	25	47.25	48.35	48.39	50.00	23.43	8.93	15.09	7937	10383		
	20	46.88	47.99	48.18	49.59	23.07	8.62	14.46	7850	1003 3		
	15	46.41	47.63	47.89	49.23	22.50	8.04	13.83	7762	9683		
	10	45.80	47.18	47.43	48.94	21.88	7.29	12.75	7675	8875		
	5	45.27	46.30	46.87	47.85	21.26	6.54	11.18	7525	7562		
MEAN		48.74	49.32	49.33	51.31	25.18	10.46	21.34	8376.86	13245.34		
STANDARD DEVIATION		2.42	1.63	1.50	2.13	2.50	2.37	8.24	729.27	4317.55		
NUMBER OF DISTRICTS		104	104	104	104	105	105	105	105	105		



HISTRICT NORMS

III. TOWNS

NT ("INPUTS")					ACHIEVEMENT ("OUTPUTS")					
i i	SCHO	OOL FINANCE	AL RESOURCES		VOCABULARY	BASIC SKILLS				
STATE EQUALIZED VALUATION PER PUPIL	LOCAL REVENUE PER PUPIL	STATE SCHOOL AID PER PUPIL	K-12 INSTRUCTIONAL EXPENSE PER PUPIL	TOTAL CURRENT OPERATING EXPENSE PER PUPIL		READING	ENGLISH EXPRESSION	MATHEMATICS	BASIC SKILLS COMPOSITE ACHIEVEMENT	
21350	423	371	510	687	54.71	53.73	54.22	54.69	54.44	
18412	391	355	487	64 5	53.13	53.36	53.71	54.00	53.63	
17485	368	342	472	625	52.70	53.06	53.27	53.46	53.20	
16559	354	333	460	608	52.32	52.80	52.97	53.07	52.82	
15632	340	323	448	598	51.95	52.56	52.59	52.83	52.48	
14825	326	315	438	588	51.59	52.32	52.15	52.53	52.19	
14038	315	309	433	578	51.27	51.98	51.95	52.2 0	51.97	
13250	304	304	428	569	51.07	51.66	51.75	51.82	51.75	
12483	293	299	422	561	50.88	51.42	51.53	51.61	51.51	
12133	282	294	417	554	50.71	51.14	51.31	51.43	51.27	
11783	272	289	412	547	50.56	50.77	51.02	51.26	51.05	
11433	263	284	406	540	50.42	50.54	50.69	51.02	50.83	
11083	254	279	401	532	50.27	50.32	50.36	50.78	50.60	
10733	245	273	394	525	50.09	50.13	50.07	50.30	50.36	
10383	236	268	388	517	49.90	49.94	49.81	49.85	50.08	
10033	227	262	381	510	49.70	49.75	49.60	49.58	49.75	
9683	211	257	375	502	49.44	49.46	49.39	49.36	49.46	
8875	193	244	368	495	49.10	49.14	49.06	48.83	49.14	
7562	176	229	362	480	48.31	48.77	48.48	48.06	48.77	
13245.34	293.74	298.63	421.06	564.94	50.98	51.21	51.26	51.41	51.30	
4317.55	80.17	44.74	43.25	58.98	1.76	1.68	1.89	2.13	1.80	
105	105	105	105	105	105	105	105	105	105	
		<u> </u>	<u> </u>	1	1		<u> </u>	<u> </u>		

